

Sacramento River East Levee Phase 2B Improvement Project
Contract No. 4046

Proposal Sheet
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**Sacramento Area Flood Control Agency
Contract No. 4046**

Natomas Levee Improvement Program - Sacramento River East Levee Phase 2B (Reaches 5A Through 9B) Improvements, Elkhorn Irrigation Canal Phase 2B Relocation, Giant Garter Snake / Drainage Canal Phase 2A Construction, Reclamation District 1000 Pumping Plant 2 Reconstruction, Pritchard Pumping Plant and Elkhorn Pumping Plant Modification, Natomas Cross Canal South Levee Phase 2B Improvement Project, Sacramento and Sutter Counties, California

SUBMIT BID TO:

Office, Clerk of the Board
County Administration Center
700 H Street, Suite 2450
Sacramento, California 95814

BID OPENING:

County Administration Center
700 H Street, Suite 2450
Sacramento, California 95814

**NO LATER THAN: 2:00 P.M.
DAY OF BID**

**APPROXIMATELY: 2:10 P.M.
FOLLOWING BID SUBMITTAL**

TO: Honorable Board of Director
Sacramento Area Flood Control Agency

I. BID

Pursuant to your published Notice to Contractors for the above-referenced projects, and in accordance with the approved Plans and Specifications for that project, the following bid for said entire project is submitted by the firm indicated on Sheet 12 of this Bid Form.

Total Bid Price to be the total of the Lump Sum Costs and Unit Prices as described in the following bid tables:

Bid Schedule A - Sacramento River East Levee Phase 2B (Plan Volume 2B)					
Sacramento River East Levee Phase 2B Improvement Project					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
A1	Mobilization and Demobilization	1	LS		851,000. ⁰⁰
A2	Storm Water Pollution Control	1	LS		45,895. ⁰⁰
A3	Temporary Protective Fencing	4,500	LF	2. ⁰⁰	9,000. ⁰⁰
A4	Mowing and Discing	12.2	AC	1,755. ⁰⁰	21,411. ⁰⁰
A5	Clearing and Grubbing	100.6	AC	616. ⁰⁰	61,969. ⁶⁰
A6	Levee and Canal Stripping	71.6	AC	1,280. ⁰⁰	91,648. ⁰⁰
A7	Demolition	1	LS		32,602. ⁰⁰
A8	Excavate Stability Berm	66,100	CY	3. ⁰⁰	198,300. ⁰⁰
A9	Levee Foundation and Miscellaneous Excavation	253,000	CY	1. ⁰⁰	253,000. ⁰⁰
A10	Inspection Trench Excavation	800	CY	3. ⁰⁰	2,400. ⁰⁰
A11	Random Fill	419,900	CY	1. ⁷⁵	734,825. ⁰⁰
A12	Levee Embankment (Soil Type 1 and Soil Type 2)	1,194,700	CY	2. ⁷⁵	2,488,075. ⁰⁰
A13	Cutoff Wall [S] STA 229+50 to STA 249+00, STA 369+00 to STA 373+00, and STA 436+00 to STA 460+00	330,000	SF	4. ⁵⁰	1,485,000. ⁰⁰
A14	Cutoff Wall [S] STA 249+00 to STA 287+00, STA 336+00 to STA 353+00, and STA 460+00 to STA 464+00	247,400	SF	4. ⁵⁰	1,113,300. ⁰⁰
A15	Cutoff Wall [S] STA 287+00 to STA 336+00	517,000	SF	12. ⁰⁰	6,204,000. ⁰⁰
A15-2	Cutoff Wall [S] STA 353+00 to STA 369+00 and STA 373+00 to STA 436+00	660,000	SF	6. ⁵⁰	4,290,000. ⁰⁰
A16	Type 2 Seed Mix	47.5	AC	1,779. ⁰⁰	84,502. ⁵⁰
A17	Type 3 Seed Mix	13.8	AC	2,223. ⁰⁰	30,677. ⁴⁰
A18	Class 2 Aggregate Base	23,400	TN	16. ⁵⁰	386,100. ⁰⁰
A19	Unsuitable Debris	5,000	CY	18. ⁰⁰	90,000. ⁰⁰
A22	SREL-2B Levee Termination	1	EA	8,443. ⁰⁰	8,443. ⁰⁰
A23	Calpine Gas Line Relocation at Elkhorn Blvd.	1	LS		289,202. ⁰⁰
A24	Concrete Floodwall	640	LF	434. ⁰⁰	277,760. ⁰⁰
A25	Temporary Ramp and Access for Parcels APN 201-0250-002, 201-0250-006, 201-0250-008, and 201-0250-010	1	LS		45,000. ⁰⁰

Bid Schedule A - Sacramento River East Levee Phase 2B (Plan Volume 2B)					
Sacramento River East Levee Phase 2B Improvement Project					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
A26	Temporary Access for APN 201-0250-011	1	LS		17,000 ⁰⁰
A27	Temporary Access for APN 201-0250-043 and APN 201-0250-037	1	LS		39,000 ⁰⁰
A29	Temporary Ramp for Elkhorn Blvd.	1	LS		100,000 ⁰⁰
A30	Temporary Access and Ramp through APN 201-0280-037	1	LS		78,000 ⁰⁰
A31	Temporary Access for APNs 201-0270-070 and 201-0270-069	1	LS		45,000 ⁰⁰
A32	Underground Electrical Conduit for Street Light	350	LF	5 ⁰⁰	1750 ⁰⁰
A33	Temporary Access for North Bayou Road	1	LS		72,563 ⁰⁰
A34	Relocate Street Light	2	EA	2063 ⁰⁰	4126 ⁰⁰
A35	Elevated Pesticide Residue Soil Removal and Disposal at APN 201-0270-002 and APN 201-0280-037	100	CY	131 ⁰⁰	13,100 ⁰⁰
A36	Install and Abandon Construction Monitoring Instrumentation	1	LS		12,593 ⁰⁰
A37	Elverta Rd to remain open to Garden Hwy Access	1	LS		100,000 ⁰⁰
A39	Temporary Security Fencing	4,300	LF	21 ⁰⁰	90,300 ⁰⁰
A40	Excavate Cultural Site Trench	250	LF	31 ⁰⁰	7,750 ⁰⁰
A41	Backfill Cultural Site Trench	250	LF	11 ⁰⁰	2,750 ⁰⁰
SUBTOTAL SCHEDULE A:					19,881,479.⁵⁰

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Bid Schedule B - Roadways and Drainage (Plan Volume 2B)					
Sacramento River East Levee Phase 2B Improvement Project					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
B1	Mobilization and Demobilization	1	LS		45,000 ⁰⁰
B3	Drain Inlet Type F	9	EA	1,616 ⁰⁰	14,544 ⁰⁰
B4	Drain Inlet Type G1	5	EA	1,871 ⁰⁰	9,355 ⁰⁰
B5	24" Reinforced Concrete Pipe under Roadway	216	LF	181 ⁰⁰	39,096 ⁰⁰
B6	24" Reinforced Concrete Pipe (Non-Paved Areas)	914	LF	68 ⁰⁰	62,152 ⁰⁰
B9	Rock Slope Protection - Type 1	133	TN	37 ⁰⁰	4,921 ⁰⁰
B10	Rock Slope Protection - Type 2	930	TN	33 ⁰⁰	30,690 ⁰⁰
B11	Bedding Material	122	TN	39 ⁰⁰	4,758 ⁰⁰
B12	Concrete Channel Trough	18	CY	929 ⁰⁰	16,722 ⁰⁰
B13	RSP Fabric	140	SY	6 ⁰⁰	840 ⁰⁰
B14	Cable Fence and Post	281	LF	38 ⁰⁰	10,678 ⁰⁰
B17	Saw Cutting	1,400	LF	2 ⁰⁰	2,800 ⁰⁰
B18	Remove Asphalt Concrete Surfacing	12,100	SY	6 ⁰⁰	72,600 ⁰⁰
B19	Asphalt Concrete (Type A)	5,400	TN	90 ⁰⁰	486,000 ⁰⁰
B20	Lime Modified Soil	5,500	CY	23 ⁰⁰	126,500 ⁰⁰
B21	Class 2 Aggregate Base	8,800	TN	18 ⁰⁰	158,400 ⁰⁰
B22	Roadside Sign - One Post	45	EA	215 ⁰⁰	9,675 ⁰⁰
B23	4 inch Solid Yellow Thermoplastic Traffic Stripe	8,370	LF	0.46	385 ⁰⁰
B24	4 inch Solid White Thermoplastic Traffic Stripe	8,550	LF	0.50	4275 ⁰⁰
B25	12 inch Solid White Thermoplastic Traffic Stripe	240	LF	3 ⁰⁰	720 ⁰⁰
B26	Thermoplastic Pavement Marking	150	SF	4 ⁰⁰	600 ⁰⁰
B27	Pavement Marker (Retro reflective)	370	EA	3 ⁰⁰	1,110 ⁰⁰
B28	Pipe Gate	20	EA	2,003 ⁰⁰	4,006 ⁰⁰

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Bid Schedule B - Roadways and Drainage (Plan Volume 2B)					
<i>Sacramento River East Levee Phase 2B Improvement Project</i>					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
B29	Remove Portland Cement Concrete Surfacing	1,900	SY	6 ⁰⁰	11,400 ⁰⁰
B31	Guard Rail	200	LF	20 ⁰⁰	4,000 ⁰⁰
B32	Transition Railing	3	EA	3,050 ⁰⁰	9,150 ⁰⁰
B33	Terminal System End Treatment	5	EA	2,200 ⁰⁰	11,000 ⁰⁰
B34	Remove Parking Stripe	275	LF	2 ⁰⁰	550 ⁰⁰
B35	Delineator	15	EA	51 ⁰⁰	765 ⁰⁰
B36	Solar Powered Flashing Beacon	3	EA	9,976 ⁰⁰	29,928 ⁰⁰
SUBTOTAL SCHEDULE B:					1,212,409⁰⁰

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Bid Schedule C - Airport North Borrow Sites 2, 2A and 6 and South Sutter Borrow Site (Plan Volume 2C)					
Sacramento River East Levee Phase 2B Improvement Project					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
C1	Mobilization and Demobilization	1	LS		300,000 ⁰⁰
C2	Protective Barrier Fencing	1,000	LF	2 ⁰⁰	2,000 ⁰⁰
C3	Exclusionary Silt Fencing	25,000	LF	1 ⁰⁰	25,000 ⁰⁰
C4	Unsuitable Debris	50	TON	12 ⁰⁰	600 ⁰⁰
C5	Surface Layer Removal, Stockpile and Respread	305	AC	1,817. ⁰⁰	554,185. ⁰⁰
C6	Borrow Site Excavation	1,717,700	CY	2.50	4,294,250. ⁰⁰
C7	Canal Embankment	12,100	CY	2 ⁰⁰	24,200 ⁰⁰
C8	Rock Slope Protection (Type 1)	30	TON	38 ⁰⁰	1,140 ⁰⁰
C9	Rock Slope Protection (Type 2)	133	TON	39 ⁰⁰	5,187 ⁰⁰
C10	Bedding Material	114	TON	36 ⁰⁰	4,104 ⁰⁰
C11	12- Inch Reinforced Concrete Pipe	87	LF	41 ⁰⁰	3,567 ⁰⁰
C12	18- Inch Reinforced Concrete Pipe	984	LF	44 ⁰⁰	43,296 ⁰⁰
C13	24- Inch Reinforced Concrete Pipe	195	LF	52 ⁰⁰	10,140 ⁰⁰
C14	18-inch HDPE Pipe	755	LF	33 ⁰⁰	24,915 ⁰⁰
C15	Precast Twin Track Weir with Canal Gate	4	EA	7,268 ⁰⁰	29,072 ⁰⁰
C16	48-inch Precast Concrete Manhole	7	EA	1,741 ⁰⁰	12,187 ⁰⁰
C17	Precast Concrete Flashboard Riser	5	EA	300 ⁰⁰	1,500 ⁰⁰
C18	Type F Drop Inlet	3	EA	1,539 ⁰⁰	4,617 ⁰⁰
C19	Pipe Gate	4	EA	2,006 ⁰⁰	8,224 ⁰⁰
C20	Type 1 Seed Mix	332	AC	2,142 ⁰⁰	711,144 ⁰⁰
C21	Type 2 Seed Mix	9	AC	1,779 ⁰⁰	16,011 ⁰⁰
C22	Type 3 Seed Mix	1	AC	2,223 ⁰⁰	2,223 ⁰⁰
C23	Cast-in-place Concrete	30	CY	862 ⁰⁰	25,860 ⁰⁰
SUBTOTAL SCHEDULE C:					6,103,462. ⁰⁰

Bid Schedule D - Giant Garter Snake Drainage Canal, Schoolhouse Road Pipeline, and Teal Bend Pipeline (Plan Volume 3A) <i>Sacramento River East Levee Phase 2B Improvement Project</i>					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
D1	Mobilization and demobilization	1	LS		185,000 ⁰⁰
D2	Protective Barrier Fencing	2,000	LF	2 ⁰⁰	4,000 ⁰⁰
D3	Exclusionary Silt fencing	16,550	LF	1 ⁰⁰	16,550 ⁰⁰
D4	Clearing and Grubbing	50.7	AC	183 ⁰⁰	9,278 ⁰⁰
D5	Miscellaneous Irrigation Structure Demolition	1	LS		64,268
D6	Levee and Canal Stripping	46	AC	1,133 ⁰⁰	52,118 ⁰⁰
D7	Excavation	275,100	CY	285	78,403 ⁵⁰
D8	Canal Embankment	52,170	CY	300	15,651 ⁰⁰
D9	Rock Slope Protection (Type 4)	1,655	TON	3300	54,615 ⁰⁰
D10	Bedding Material	921	TON	31 ⁰⁰	28,551 ⁰⁰
D11	Compacted Earth Lining	46,350	CY	3 ⁰⁰	139,050 ⁰⁰
D12	24-Inch Low-Head Reinforced Concrete Pipe	217	LF	90 ⁰⁰	19,530 ⁰⁰
D13	30-Inch Low-Head Reinforced Concrete Pipe	220	LF	95 ⁰⁰	20,900 ⁰⁰
D14	36-Inch Low-Head Reinforced Concrete Pipe	11,371	LF	100 ⁰⁰	1,137,100 ⁰⁰
D15	42-Inch Low-Head Reinforced Concrete Pipe	2,579	LF	116 ⁰⁰	299,164 ⁰⁰
D16	8' x 6' Precast Box Culvert	534	LF	900 ⁰⁰	480,600 ⁰⁰
D17	6' x 6' Precast Box Culvert	592	LF	500 ⁰⁰	296,000 ⁰⁰
D18	Elkhorn Outfall Structure	1	LS		25,000 ⁰⁰
D19	GGs Check Structure (Type A)	11	EA	15,125 ⁰⁰	166,375 ⁰⁰
D20	GGs Check Structure (Type B)	5	EA	25,000 ⁰⁰	125,000 ⁰⁰
D21	12-inch HDPE Pipe	70	LF	50 ⁰⁰	3,500 ⁰⁰
D22	18-Inch HDPE Pipe	255	LF	40 ⁰⁰	10,200 ⁰⁰
D23	24-inch HDPE Pipe	246	LF	50 ⁰⁰	12,300 ⁰⁰
D24	30-Inch HDPE Pipe	80	LF	72 ⁰⁰	5,760 ⁰⁰
D26	Concrete Lining	5	CY	1,841 ⁰⁰	9,205 ⁰⁰

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**Bid Schedule D - Giant Garter Snake Drainage Canal, Schoolhouse Road Pipeline, and Teal Bend Pipeline
(Plan Volume 3A)**

Sacramento River East Levee Phase 2B Improvement Project

Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
D27	Precast Twin Track Weir with Canal Gate	1	EA	2,786 ⁰⁰	2,786 ⁰⁰
D28	Alfalfa Valve	6	EA	979 ⁰⁰	5,874 ⁰⁰
D29	72-Inch Precast Concrete Manhole	20	EA	3,689 ⁰⁰	13,780 ⁰⁰
D30	Hibernacula	12	EA	5,678 ⁰⁰	68,136 ⁰⁰
D31	Motor Actuator with 6'x6' Flush Bottom Canal Gate	2	EA	20,227 ⁰⁰	40,454 ⁰⁰
D32	Motor Actuator on Existing 60" Canal Gate	2	EA	7,025 ⁰⁰	14,050 ⁰⁰
D33	Motor Actuator on Existing 54" Canal Gate	2	EA	7,025 ⁰⁰	14,050 ⁰⁰
D34	Motor Actuator on Existing 48" Canal Gate	9	EA	6,330 ⁰⁰	56,970 ⁰⁰
D35	Motor Actuator on Existing 36" Canal Gate	2	EA	5,635 ⁰⁰	11,270 ⁰⁰
D36	Standpipe	1	EA	14,000 ⁰⁰	14,000 ⁰⁰
D37	Precast Concrete Flashboard Riser	14	EA	600 ⁰⁰	8,400 ⁰⁰
D38	GGG/Schoolhouse Intake Vault	1	LS	32,678 ⁰⁰	32,678 ⁰⁰
D39	Class 2 Aggregate Base	400	TON	18 ⁰⁰	7,200 ⁰⁰
D40	Asphalt Concrete (Type A)	50	TON	222 ⁰⁰	11,100 ⁰⁰
D41	Type 1 Seed Mix	46	AC	2,142 ⁰⁰	98,532 ⁰⁰
D43	Cast-in-place Concrete	78	CY	616 ⁰⁰	48,048 ⁰⁰
D44	Bollard	11	EA	370 ⁰⁰	4,070 ⁰⁰
D45	Structure Demolition	1	LS		1,500 ⁰⁰
D46	Moody Canal Pipe	100	LF	600 ⁰⁰	60,000 ⁰⁰
D47	Elevated Pesticide Residue Soil Removal and Disposal at APN 201-0240-029	12	CY	189 ⁰⁰	2,268 ⁰⁰
D48	Rock Slope Protection (Type 6)	646	TON	31 ⁰⁰	20,026 ⁰⁰
D49	Gasoline Powered Portable Actuator	3	EA	2,000 ⁰⁰	6,000 ⁰⁰
SUBTOTAL SCHEDULE D:					4,705,895¹⁰

Bid Schedule E - Pritchard Pumping Plant and Elkhorn Pumping Plant (Plan Volume 3C) Sacramento River East Levee Phase 2B Improvement Project					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
E1	Mobilization and Demobilization	1	LS		13,500.00
E2	Not Applicable				
E3	Not Applicable				
E4	Not Applicable				
E5	Clearing and Grubbing	0.5	AC	1,012.00	506.00
E6	Not Applicable				
E7	Not Applicable				
E8	Not Applicable				
E9	Not Applicable				
E10	Excavation	5,000	CY	1.00	5,000.00
E11	Levee Embankment - Soil Type 1 or Soil Type 2	7,500	CY	1.00	7,500.00
E12	Not Applicable				
E13	Not Applicable				
E14	Not Applicable				
E15	Not Applicable				
E16	Not Applicable				
E17	Not Applicable				
E18	Not Applicable				
E19	Not Applicable				
E20	Not Applicable				
E21	Not Applicable				
E22	36-inch Solid Wall HDPE Pipe	5	LF	406.00	2,030.00
E23	54-inch Solid Wall HDPE Pipe	142	LF	365.00	51,830.00
E24	Not Applicable				
E25	Elkhorn Flow Meter Vault	1	LS		45,000.00
E26	Not Applicable				
E27	Not Applicable				
E28	Not Applicable				

Bid Schedule E - Pritchard Pumping Plant and Elkhorn Pumping Plant (Plan Volume 3C) <i>Sacramento River East Levee Phase 2B Improvement Project</i>					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
E29	<i>Not Applicable</i>				
E30	<i>Not Applicable</i>				
E31	Temporary Pumping at Elkhorn Pumping Plant	1	LS		20,000 ⁰⁰
E32	Class 2 Aggregate Base	20	TON	65 ⁰⁰	1,300 ⁰⁰
E33	<i>Not Applicable</i>				
E34	<i>Not Applicable</i>				
E35	<i>Not Applicable</i>				
E36	Type 2 Seed Mix	0.5	AC	1,779 ⁰⁰	889 ⁵⁰
E37	Cast-in-place Concrete	2.6	CY	258 ⁰⁰	678 ⁰⁰
E38	Bollard	10	EA	565 ⁰⁰	5650 ⁰⁰
E39	<i>Not Applicable</i>				
E40	36-Inch Welded Steel Pipe	132	LF	1000 ⁰⁰	132,000 ⁰⁰
E41	<i>Not Applicable</i>				
E42	24-Inch Welded Steel Pipe	132	LF	550 ⁰⁰	72,600 ⁰⁰
E43	<i>Not Applicable</i>				
E44	<i>Not Applicable</i>				
E45	<i>Not Applicable</i>				
E46	<i>Not Applicable</i>				
E47	36-inch Electromagnetic Flow Meter	1	EA	11,000 ⁰⁰	11,000 ⁰⁰
E48	<i>Not Applicable</i>				
E49	24-inch Electromagnetic Flow Meter	1	EA	15,000 ⁰⁰	15,000 ⁰⁰
E50	<i>Not Applicable</i>				
E51	<i>Not Applicable</i>				
E52	<i>Not Applicable</i>				
E53	<i>Not Applicable</i>				
E54	<i>Not Applicable</i>				
E55	<i>Not Applicable</i>				
E56	<i>Not Applicable</i>				
E57	<i>Not Applicable</i>				

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Bid Schedule E - Pritchard Pumping Plant and Elkhorn Pumping Plant (Plan Volume 3C)					
<i>Sacramento River East Levee Phase 2B Improvement Project</i>					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
E58	<i>Not Applicable</i>				
E59	<i>Not Applicable</i>				
E60	Structure Demolition	1	LS		3,319.00
SUBTOTAL SCHEDULE E:					340,025.30

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Bid Schedule H – Natomas Cross Canal South Levee Phase 2B (Plan Volume 6,7) *					
Natomas Cross Canal South Levee Phase 2B Improvement Project					
Line Item	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
H1	Mobilization and Demobilization	1	LS		72,000. ⁰⁰
H2	Storm Water Pollution Control	1	LS		21,155. ⁰⁰
H3	Silt Fencing	6,190	LF	7. ⁰⁰	6,190. ⁰⁰
H4	Clearing and Grubbing	8.2	AC	154. ⁰⁰	1,262. ⁸⁰
H5	Stripping	8.2	AC	1,672. ⁰⁰	13,710. ⁰⁰
H6	Levee Embankment Degrade	34,500	CY	2. ⁰⁰	69,000. ⁰⁰
H7	Remove and Dispose of Existing Chimney Drain	1,100	LF	9. ⁰⁰	9,900. ⁰⁰
H8	Levee Embankment Fill	116,000	CY	2. ⁰⁰	232,000. ⁰⁰
H9	Random Fill	11,100	CY	1. ⁰⁰	11,100. ⁰⁰
H10	Toe Key Excavation and Backfill	1,080	CY	3. ⁰⁰	3,240. ⁰⁰
H11	Cutoff Wall Installation [S]	187,320	SF	6. ⁰⁰	1,123,920. ⁰⁰
H12	Class 2 Aggregate Surfacing	4,100	TN	16. ⁰⁰	65,600. ⁰⁰
H13	Salvage Aggregate Surfacing	3,100	LF	2. ⁰⁰	6,200. ⁰⁰
H15	Install Non-Horse Climb Fencing	460	LF	21. ⁰⁰	9,660. ⁰⁰
H16	Demolition and Grading Work on APN 35-050-030 Property	1	LS		24,600. ⁰⁰
H17	Borrow from Existing Stockpile	30,000	CY	2. ⁰⁰	60,000. ⁰⁰
H18	Borrow Site Excavation	58,400	CY	3. ⁰⁰	175,200. ⁰⁰
H19	Borrow Site Surface Layer Removal, Stockpile, and Respreading	17.5	AC	3,050. ⁰⁰	53,375. ⁰⁰
H20	Type 1 Seed Mix	1.0	AC	5,009. ⁰⁰	5,009. ⁰⁰
H21	Type 2 Seed Mix	25.1	AC	1781. ⁰⁰	44,703. ¹⁰
H22	Unsuitable Debris	5	TN	93. ⁰⁰	465. ⁰⁰
SUBTOTAL SCHEDULE H:					2,008,290. ³⁰

*See notes following Bid Schedule Summary Table.

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Bid Schedule I - General Project Requirements (Volume 1) *					
Line Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
I1	Builder's Risk Insurance	1	LS		148,775. ⁰⁰
SUBTOTAL SCHEDULE I:					148,775. ⁰⁰

*See notes following Bid Schedule Summary Table.

SUBTOTAL SCHEDULE A:	19,881,479. ⁵⁰
SUBTOTAL SCHEDULE B:	1,212,409. ²⁰
SUBTOTAL SCHEDULE C:	6,103,462. ⁰⁰
SUBTOTAL SCHEDULE D:	4,705,895. ¹⁰
SUBTOTAL SCHEDULE E:	340,025. ³⁰
SUBTOTAL SCHEDULE F:	
SUBTOTAL SCHEDULE G:	
SUBTOTAL SCHEDULE H:	2,008,290. ⁵⁰
SUBTOTAL SCHEDULE I:	148,775. ⁰⁰
TOTAL BID SCHEDULE (A+B+C+D+E+F+G+H+I):	34,400,336. ⁴⁰

Notes:

1. All quantities are in-place quantities.
2. Prices must be submitted on all individual items of this Bid Schedule. Failure to do so will result in rejection of the bid.
3. See Specification Section 8-1 regarding payment for mobilization and demobilization.
4. Items designated with [S] are to be considered Specialty Items in accordance with General Specification Paragraph 2-8.
5. In the event that the product of a unit price and an estimated quantity does not equal the extended amount stated, the unit price will govern and the correct product of the unit price and the estimated quantity shall be deemed to be the bid amount.

II. ADDENDA

Acknowledgement is hereby made of receipt and incorporation of all addenda, including addendum number 1 through addendum number 9, into this Bid.

III. BID GUARANTY

Bid Security must be a bidders bond, a certified check or cashier's check payable to Sacramento Area Flood Control Agency.

Bid secured by personal checks or personal guarantees will be rejected.

IV. AFFIDAVIT OF NON-COLLUSION

The bidder swears and deposes that he or she is the party making the foregoing bid, that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or a sham; that the bidder has not directly, or indirectly, colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any bidder, or to secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, bid depository, or to any member or agency thereof to effectuate a collusive or sham bid.

V. DEBARMENT

The bidder/contractor certifies, by submission of this proposal or acceptance of this contract, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in a federally-funded contract by any Federal department or agency. It further agrees by submitting this proposal that it will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts. Where the bidder/contractor or any lower tier participants is unable to certify to this statement, it shall attach an explanation to this solicitation/proposal.

Sacramento River East Levee Phase 2B Improvement Project
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VI. BID ATTACHMENTS

A. Subcontractor Listing (Attachment A)

In accordance with the California Public Contract Code, Division 2, Part 1, Chapter 4, Section 4100 and following, the subcontractors listed on Attachment A to this Bid Form will perform the indicated work on improvement on this project. Attachment A is hereby incorporated into and made a part of this bid.

B. Bidders Experience Questionnaire (Attachment B)

To demonstrate that the bidder's experience conforms to the requirements set forth in the contract specifications, Attachment B is hereby incorporated into and made part of this bid.

VII. TYPE OF BUSINESS (CHECK ONE)

- CORPORATION
STATE OF INCORPORATION: Nevada
- PARTNERSHIP
- JOINT VENTURE
- PRIVATE INDIVIDUAL
- INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME

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VIII. FIRM

Firm Name: Nordic Industries, Inc.

Mailing Address: 1437 Furneaux Road

Olivehurst, CA 95951

Physical Address: Same as Above

Telephone: (530) 742-7124

Fax: (530) 742-5545

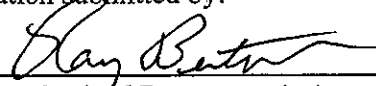
Contractor's License Number: 592271

Contractor's License Expiration Date: 4/30/2012

Contractor's License Classification: A

I hereby certify under penalty of perjury that the above statements are true.

Bid and certification submitted by:

Signature: 
(Authorized Representative)

Print: Ray Bertelsen

Title: Vice President

ATTACHMENT A

DESIGNATION OF SUBCONTRACTORS

The following are the types, name and location of places of business of all subcontractors who will perform work or labor or render service to the bidder in, or about, the work in accordance with the approved Plans and Specifications, in an amount in excess of one-half percent (0.5 %) of the General Contractor's Total Bid. Additional sheets may be attached if necessary.

The low bidder, or apparent contractor, will submit a listing of license numbers by subcontractor within ten (10) days of bid opening. The Contractor is directed to General Specification Section 2-8 regarding the listing of subcontractors.

Type of Work	% of Work	Bid Item Nos.	Subcontractor	Place of Business
Gasline Abandon Install	0.85% ^{RS} .85%	A23	CABRAL PRODUCTION	RD VISTA, CA
TEMP Fence, Pipe GATES	0.5% ^{RS} .5%	A34, B28, C19, H15	CENTRAL FENCE	SACRAMENTO, CA
Well Abandon Incl. Abandon	0.64% ^{RS} .64%	A36, A7	FOR LUMBER ^{RS} NORCAL PUMP	SACRAMENTO, CA ^{RS} Yuba City, CA
Paving	1.65%	A25, A29, A31, A33, A37, D19, D40	Delta Construction	SACRAMENTO, CA
SB-Wall	3.89%	H11	Magnus Pacific / Inquip JV.	Roseville, CA
DSM -Wall	19.8%	H15	Ratio Incorp.	San Leandro, CA
Concrete	3.50%	A25, B12, C23, D14, D17, D20, D22, D28, D43, E21	Get' R' Done	Tracy, CA
Hydro-Seed	2.8%	A16, A17, C20, C21, C22, D41, E36, H20, H21	Seiby Soil	LOOMIS, CA

Use additional sheets for Attachment A as necessary.

ATTACHMENT B**BIDDER'S EXPERIENCE QUESTIONNAIRE****INSTRUCTIONS:**

The bidder shall submit to the Agency, with the proposal, a fully-completed copy of this questionnaire, wherein the bidder submits his/her own and appropriate subcontractor's qualifications and experience in performing work. Failure to comply with this requirement shall render the bid non-responsive and shall result in its rejection. Supplemental sheets may be included as required to provide information.

See attached pages for the following areas:

Section 1 Earthwork Contractor's Qualifications

Section 2 Earthwork Contractor's Project Personnel's Qualifications

Section 3 Cutoff Wall (Sub)Contractor's Qualifications

Section 4 Cutoff Wall (Sub)Contractor's Personnel's Qualifications

Section 5 Contractor's General References

Project 3 Name: Phase 4 Feather River Levee Repair Project (Yuba County)
 Location: Marysville, California
 Start Date: July 2007 Embankment Quantity: 125,000 CY
 Completion Date: December 31, 2008 (Approx. Contract Amount: \$18,000,000)
 Owner's Representative: Three Rivers Levee Improvement Authority
 Owner Contact; Name: Doug Handen Phone: (916) 425-4662
 Construction Activity Description: Levee degrade and reconstruction, construct SB and SCB slurry cutoff walls (5X10⁷) including wet-batching backfill materials and mix control

Performed Contractor	Work as:	Prime	Subcontractor
		<u>Yes</u>	<u>Yes/No</u>
		<u>Yes/No</u>	<u>Yes/No</u>

Project 4 Name: See Attached List of Completed Projects
 Location: _____
 Start Date: _____ Embankment Quantity: _____
 Completion Date: _____ Contract Amount: _____
 Owner's Representative: _____
 Owner Contact; Name: _____ Phone: _____
 Construction Activity Description: _____

Performed Contractor	Work as:	Prime	Subcontractor
		<u>Yes/No</u>	<u>Yes/No</u>
		<u>Yes/No</u>	<u>Yes/No</u>

NORDIC INDUSTRIES, INC.
CONTRACTOR'S STATEMENT OF EXPERIENCE

Year Completed	Job Name	Type of Work	Location of Work	Value	Owner	Project Management/Inspection	Project Manager	Phone No.
2002	Robla Creek South Levee and NEMDEC West Levee Improvement Project Contract #3335	Levee Improvements	Rio Linda, CA	\$5,766,290	Sacramento Area Flood Control Agency	County of Sacramento	John Bassett	916-704-8731
2002	Garden Highway Repair Project	Slurry Wall	Sacramento, CA	\$504,125	Sacramento Area Flood Control Agency	Parsons Brickerhoff	John Bassett	916-704-8731
2003	Rio Del Oro Units 1, 2, & 3	Subdivision	Plumas Lake, CA	\$17,229,185	Beazer Homes	Yuba County	Peminder Bains	530-882-7875
2004	Metro Air Park	Site Grading & Drainage	Sacramento, CA	\$12,867,528	Metro Air Park LLC	Project Management, Inc	Gary Albertson	916-375-0200
2005	Plumas Lake Offsite Drainage Channel	Grading & Drainage	Yuba County, CA	\$2,677,796	Cresleigh Homes	MSA/RD 784	Rick Hanson	916-788-4456
2005	Ella Detention Basin	Grading	Yuba County, CA	\$980,000	Mike Smith	MHM Engineering	Sean Minard	530-742-6485
2006	Bear River Setback Levee Contract #PH3-2005/06-02	Levee Improvements	Yuba County, CA	\$11,656,743	Three Rivers Levee Improvement Agency	GEI Consultants	John Dahl	916-717-0162
2006	Phase 1V-Yuba River Levee Repair Contract #PH4-2006/07/04	Slurry Wall	Linda, CA	\$12,984,471	Three Rivers Levee Improvement Agency	HDR Engineering	Blake Johnson	916-204-6869
2006	Clark Diversion Channel Contract #02-147	Levee Improvements	Yuba County, CA	\$426,025	Reclamation District 784	MHM/RD 784	Rick Goss	530-308-6544
2006	IDIQ Emergency Levee Repair, Contract # W91238-04-D-0002	Emergency Flood Control & River Bank Protection	Northern California	\$2,843,146	Army Corps of Engineers	Army Corps of Engineers	Brian Poole	916-557-7813
2006	Phase II Levee Repair Project, Contract #PH4-2007-08-01	Levee Improvements	Yuba County, CA	\$33,960,785	Three Rivers Levee Improvement Agency	HDR Engineering	Blake Johnson	916-204-6869
2007	Sacramento River - RM56.8R & 69.9R, Contract #C51329	River Bank Repair & Protection	Sacramento County, CA	\$8,694,800	State of California, Department of Water Resources	DWR	Rob Fill	916-679-2245
2007	Sacramento River - RM 130.8 thru 164.0, Contract #51330	River Bank Repair & Protection	Colusa County, CA	\$39,496,334	State of California, Department of Water Resources	DWR	Rob Fill	916-679-2245

**NORDIC INDUSTRIES, INC.
CONTRACTOR'S STATEMENT OF EXPERIENCE**

Year Completed	Job Name	Type of Work	Location of Work	Value	Owner	Project Management/Inspection	Project Manager	Phone No.
2007	South Sacramento Streams 1.B.1, Contract W91238-06-C-0020	Flood Control Project	Sacramento, CA	\$18,142,010	Army Corps of Engineers	Army Corps of Engineers	Ryan Larson	916-557-7569
2008	South Sacramento Streams 1.B.2, Contract W91238-06-C-0020 (Subcontractor to SMP Services)	Flood Control Project	Sacramento, CA	\$18,282,139	Army Corps of Engineers	Army Corps of Engineers	Ryan Larson (COE - PIM) Frank Garrison (SMP PIM)	916-557-7569 916-761-1242
2008	Phase 4 Feather River Levee Repair Project, Contract #PH4-2007/08-01	Levee Improvements	Yuba County, CA	\$17,324,129	Three Rivers Levee Improvement Agency	GEI Consultants	John Dahl	916-717-0162
2008	Coyote Dam Upstream Face Riprap Replacement Project (Subcontractor to Newland Entities, Inc.)	Riprap Face of Dam	Mendocino County, CA	\$3,350,000	Army Corps of Engineers	Army Corps of Engineers	Frank Garrison (SMP PIM)	916-761-1242
2009	A.V. Watkins Dam Modification - Cement-Bentonite Cutoff Wall, Contract No. 08-CC-40-8244 (Subcontractor to Geo-Solutions, Inc.)	Slurry Wall	Weber County, Utah	\$17,447,305 \$224,632,811	U.S. Bureau of Reclamation	U.S. Bureau of Reclamation	Brant Demars	801-368-3903

Section 2 - Earthwork Contractor's Project Personnel's Qualifications. Identify the individuals, including the project manager and site superintendent, who will be in responsible charge of the project. For each individual, include a list of at least three (3) reference projects on which the individual held the same position. The project manager shall have a minimum of five (5) years experience as a project manager on earthwork projects, and superintendents shall have a minimum of three (3) years experience on earthwork projects placing a minimum of 75,000 cy of compacted fill. Substitution for identified individuals will not be permitted without the prior written consent of the Agency.

Individual's Name: Todd Lemmons
 Present Position in the Organization: Project Manager
 Proposed Position for Project: Project Manager
 Years of Experience in Position Proposed for Project: 8
 Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100

Reference Projects:

1. Project Name: Lower Feather River Setback Levee at Star Bend
 Owner's Representative: Levee District No. 1
 Owner's Contact; Name: Bill Hampton Phone: (530) 673-2454
 Position Held by Individual: Project Manager
 Project Start/End Dates: 7/2009 - 4/30/2010
 Construction Activity Description:
Levee degrading and reconstruction, construct setback levee, SB and
SCB Slurry Cutoff walls (5 X 10⁻⁷) including wet-batching SB
materials and mix control

2. Project Name: Phase 4 Feather River Levee Repair Project
 Owner's Representative: Three Rivers Levee Improvement Authority
 Owner's Contact; Name: Doug Handen Phone: (916) 425-4662
 Position Held by Individual: Project Manager
 Project Start/End Dates: 7/2007 - 12.21.2008
 Construction Activity Description:
Levee degrade and reconstruction, construct SB and SCB slurry
cutoff walls (5 X 10⁻⁷) including wet-batching backfill materials
and mix control

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3. Project Name: Yuba River Levee Repair Project Phase 4
 Owner's Representative: Three River Levee Improvement Authority
 Owner's Contact; Name: Doug Handen Phone: (530) 673-2454
 Position Held by Individual: Project Manager
 Project Start/End Dates: August 2006 / December 2006
 Construction Activity Description:
Raise existing levee and construct SCB Cutoff Wall
(548,000 sf).
4. Project Name: Phase II Levee Repairs
 Owner's Representative: Three Rivers Levee Improvement Authority
 Owner's Contact; Name: Doug Handen Phone: 916-425-4662
 Position Held by Individual: Project Manager
 Project Start/End Dates: July 2005 / December 2006
 Construction Activity Description:
Raising and reworking levees; construct SCB Cutoff wall;
Construct two pump stations.

Individual's Name: Brian Bushnell
 Present Position in the Organization: Site Superintendent
 Proposed Position for Project: Site Superintendent
 Years of Experience in Position Proposed for Project: 20
 Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100

Reference Projects:

1. Project Name: Lower Feather River Setback Levee at Star Bend
 Owner's Representative: Levee District No. 1
 Owner's Contact; Name: Bill Hampton Phone: (530) 673-2454
 Position Held by Individual: Site Superintendent
 Project Start/End Dates: 7/2009 - 4/30/2010
 Construction Activity Description:
Levee degrading and reconstruction, construct setback levee, SB and
SCB Slurry Cutoff walls (5X10⁻⁷) including wet batching SB materials
and mix control

2. Project Name: Phase 4 Feather River Levee Repair Project
 Owner's Representative: Three Rivers Levee Improvement Authority
 Owner's Contact; Name: Doug Handen Phone: (916) 425-4662
 Position Held by Individual: Site Superintendent
 Project Start/End Dates: 7/2007 - 12/21/2008
 Construction Activity Description:
Levee degrade and reconstruction, construct SB and SCB slurry
cutoff walls (5X10⁷) including wet-batching backfill materials
and mix control.

3. Project Name: Yuba River Levee Repair Project Phase 4
 Owner's Representative: Three River Levee Improvement Authority
 Owner's Contact; Name: Doug Handen Phone: (530) 673-2454
 Position Held by Individual: Site Superintendent
 Project Start/End Dates: August 2006 / December 2006
 Construction Activity Description:
Raise existing levees; Construct SCB Cutoff Wall

4. Project Name: _____
 Owner's Representative: _____
 Owner's Contact; Name: _____ Phone: _____
 Position Held by Individual: _____
 Project Start/End Dates: _____
 Construction Activity Description:

Individual's Name: John Hicks
 Present Position in the Organization: Project Manager
 Proposed Position for Project: Project Manager
 Years of Experience in Position Proposed for Project: 30+
 Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 50

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Reference Projects:

1. Project Name: Bear River North Levee Rehabilitation Project, RD 2103
 Owner's Representative: Wood-Rodgers
 Owner's Contact; Name: Brett Williams Phone: (916) 341-7769
 Position Held by Individual: Project Manager
 Project Start/End Dates: 8/2008 - 12/15/2009
 Construction Activity Description:
Levee degrading and reconstruction, SCB Slurry Cutoff Wall (5X10⁻⁷)
including wet-batching SCB backfill materials and mix control.
2. Project Name: South Sacramento Streams Projects, Contract I.B.1
 Owner's Representative: U S Army Corps of Engineers
 Owner's Contact; Name: Scott Mahlum Phone: (916) 373-1617 x 312
 Position Held by Individual: Project Manager
 Project Start/End Dates: AUGUST 2006/ NOVEMBER 2008
 Construction Activity Description:
LEVEE DEGRADE & RECONSTRUCTION, CONCRETE FLOOD WALLS,
CHANNEL EXCAVATION & CONCRETE CHANNEL LINER, STEEL SHEET
PILE WALL
3. Project Name: Bear River Setback Levee, Three River Levee Improvement Authority
 Owner's Representative: GEL CONSULTANTS
 Owner's Contact; Name: JOHN DAHL Phone: 916-717-0162
 Position Held by Individual: Project Manager
 Project Start/End Dates: APRIL 2006 - NOVEMBER 2006
 Construction Activity Description:
Construct new levee with stability berms, Settlement basins,
pump stations, relief wells & concrete-lined ditch
4. Project Name: _____
 Owner's Representative: _____
 Owner's Contact; Name: _____ Phone: _____
 Position Held by Individual: _____
 Project Start/End Dates: _____
 Construction Activity Description:

Individual's Name: _____

Present Position in the Organization: _____

Proposed Position for Project: _____

Years of Experience in Position Proposed for Project: _____

Percentage of On-Site Time Individual will spend Managing/Supervising the Work: _____

Reference Projects:

1. Project Name: _____

Owner's Representative: _____

Owner's Contact; Name: _____ Phone: _____

Position Held by Individual: _____

Project Start/End Dates: _____

Construction Activity Description:

2. Project Name: _____

Owner's Representative: _____

Owner's Contact; Name: _____ Phone: _____

Position Held by Individual: _____

Project Start/End Dates: _____

Construction Activity Description:

3. Project Name: _____

Owner's Representative: _____

Owner's Contact; Name: _____ Phone: _____

Position Held by Individual: _____

Project Start/End Dates: _____

Construction Activity Description:

4. Project Name: _____
Owner's Representative: _____
Owner's Contact; Name: _____ Phone: _____
Position Held by Individual: _____
Project Start/End Dates: _____
Construction Activity Description:

Section 3 - Cutoff Wall (Sub) Contractor's Qualifications. List at least three (3) projects that the cutoff wall (sub)contractor has completed since January 1, 1990. Briefly describe construction activities, emphasizing construction activities similar to those to be provided on this project, specifically including but not limited to: construction of SB slurry cutoff walls of similar depth and width, construction of SB slurry cutoff walls with 1×10^{-6} cm/sec hydraulic conductivity (permeability) requirements and experience with wet-batching SB materials and mix control. Projects qualifying for relevant experience shall have a minimum wall length of 500 feet and a minimum wall depth of 50 feet.

Project 1: Name: Lower Feather River Setback Levee at Star Bend (Sutter County)
Location: Yuba City, CA
Start Date: July 2009 Completion Date: April 30, 2010 approx.
Wall Length: 3300' Wall Depth: 48' & 65' Wall Permeability: 5×10^{-7}
Owner's Representative: MHM Engineering
Owner Contact; Name: Sean Minard Phone: (530) 842-6485
Construction Activity Description: Levee degrading and reconstruction, construct setback levee, SB and SCB Slurry Cutoff walls (5×10^{-7}) including wet-batching SB materials and mix control.

Performed Work as: Prime Contractor Yes Subcontractor Yes/No
Yes/No Yes/No

Project 2: Name: Bear River North Levee Rehabilitation Project (Yuba County)
Location: Wheatland, CA
Start Date: Aug 2008 Completion Date: December 15, 2009
Wall Length: 7000' Wall Depth: 50+-' Wall Permeability: 5×10^{-7}
Owner's Representative: Wood-Rodgers Engineering
Owner Contact; Name: Brett Williams Phone: (916) 341-7769
Construction Activity Description: Levee degrading and reconstruction, SCB slurry cu cutoff wall (5×10^{-7}) including wet-batching SCB backfill materials and mix control.

Performed Work as: Prime Contractor Yes Subcontractor Yes/No
Yes/No Yes/No

Project 3: Name: Phase 4 Feather River Levee Repair Project (Yuba County)
 Location: Marysville, California
 Start Date: July 2007 Completion Date: December 31, 2008 approx
 Wall Length: 2600' Wall Depth: 65' Wall Permeability: _____
 Owner's Representative: Three Rivers Levee Improvement Authority
 Owner Contact; Name: Doug Handen Phone: (916) 425-4662
 Construction Activity Description: Levee degrade and reconstruction construct SB and SCB slurry cutoff walls (5X10⁻⁷) including wet-batching backfill materials and mix control.

Performed Work as: Prime Contractor Yes Subcontractor _____
 Yes/No Yes/No

Project 4: Name: See Attached List of Slurry Wall Projects
 Location: _____
 Start Date: _____ Completion Date: _____
 Wall Length: _____ Wall Depth: _____ Wall Permeability: _____
 Owner's Representative: _____
 Owner Contact; Name: _____ Phone: _____
 Construction Activity Description: _____

Performed Work as: Prime Contractor _____ Subcontractor _____
 Yes/No Yes/No

Section 4 - Cutoff Wall (Sub)Contractor's Personnel's Qualifications. Identify the individuals, including the project manager and site superintendent, who will be in responsible charge of the cutoff wall construction on the project. For each individual, include a list of at least three (3) reference projects on which the individual held the same position. The project manager shall have a minimum of five (5) years experience on cutoff wall projects, and superintendents shall have a minimum of three (3) years experience on cutoff wall projects. Substitution for identified individuals will not be permitted without the prior written consent of the Agency.

Individual's Name: A. David Miller
Present Position in the Organization: Senior Vice President
Proposed Position for Project: Project Manager
Years of Experience in Position Proposed for Project: 20
Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 50%

Reference Projects:

1. Project Name: Natomas Cross Canal Phase 1
 Owner's Representative: John Bassett
 Owner's Contact; Name: SAFCA Phone: 916-704-8731
 Position Held by Individual: Pocket Geotechnical
 Project Start/End Dates: John Sisley (Retired Project Engineer)
 Construction Activity Description: Construction of 415,000 SF deep soil mixing cutoff wall to a maximum depth of 85ft utilizing the 3-auger mixing rig which meet the specifications of the Phase 2B Project. The cutoff wall achieved a permeability of 1×10^{-9} cm/sec.
2. Project Name: Pocket Geotechnical
 Owner's Representative: John Sisley (Retired Project Engineer)
 Owner's Contact; Name: USACE-Sac. District Phone: 209-607-7127
 Position Held by Individual: Project Manager
 Project Start/End Dates: August, 2006 - December, 2006
 Construction Activity Description: Construction of 192,500 SF deep soil mixing cutoff to a depth of 112ft utilizing the 3-auger mixing rig which meet the specifications of the Phase 2B Project. The cutoff wall achieved a permeability of 5×10^{-7} cm/sec.
3. Project Name: Sacramento East Bank Levee
 Owner's Representative: John Sisley (Retired Project Engineer)
 Owner's Contact; Name: USACE-Sac. District Phone: 209-607-7127

NORDIC INDUSTRIES, INC.

SLURRY WALL EXPERIENCE

Year Completed	Job Name	Type of Work	Location of Work	Value	Owner	Project Management/Inspection	Project Manager	Phone No.
2004	Phase 1-Yuba River Levee Repair Contract #201064-15115-141	Slurry Wall	Linda, CA	\$1,745,500	Three Rivers Levee Improvement Agency	HDR Engineering	Chris Krivanec	916-817-4842
	Type of Cutoff Wall: Soil-Cement-Bentonite.		SF of Wall: 95,000.		Excavator Operator: Shane Wallace			
2006	Phase 4-Yuba River Levee Repair Contract #PH4-2006/07/04	Slurry Wall	Linda, CA	\$12,984,471	Three Rivers Levee Improvement Agency	HDR Engineering	Blake Johnson	916-204-6869
	Type of Cutoff Wall: Soil-Cement-Bentonite.		SF of Wall: 507,855.		Excavator Operator: Jason Kamine			
2007	Freeport Regional Water Intake Facilities Project	Slurry Wall	Sacramento, CA	\$992,000	Balfour Beatty Infrastructure, Inc., Vacaville, CA	Sacramento County	Reg Chamberlain	916-392-2239
	Type of Cutoff Wall: Soil-Cement-Bentonite.		Excavator Operator: Jason Kamine					
2008	Phase 4 Feather River Levee Repair Project, Contract #PH4-2007/08-01	Levee Improvements	Yuba County, CA	\$17,324,129	Three Rivers Levee Improvement Agency	GEI Consultants	John Dahl	916-717-0162
	Type of Cutoff Wall: Soil-Cement-Bentonite (287,715 sf) and Soil-bentonite (176,035 sf).		Excavator Operator(s): Jason Kamine (230,300 sf) / Shane Wallace (92,235 sf) / Scott Champlin 112,550 sf)					
2008	A.V. Watkins Dam Modification - Cement-Bentonite Cutoff Wall, Contract No. 08-CC-40-8244 (Subcontractor to Geo-Solutions, Inc.)	Slurry Wall	Weber County, Utah	\$17,447,305	U.S. Bureau of Reclamation	U.S. Bureau of Reclamation	Brant Demars	801-368-3903
	Type of Cutoff Wall: Cement-Bentonite (1,567,741 sf).		Excavator Operator(s): Jason Kamine (815,813 sf) / Shane Wallace (753,928 sf)					
2009	Bear River North Levee Rehabilitation Project, Contract 08-01	Slurry Wall	Wheatland, CA	\$11,413,434	Reclamation District No. 2103	Wood-Rodgers, Inc.	Brett Williams	916-341-7760
	Type of Cutoff Wall: Soil-Cement-Bentonite (562,335).		Excavator Operator(s): Scot Champlin (149,000 sf) / Shane Wallace (202,120 sf)					

Section 4 - Cutoff Wall (Sub)Contractor's Personnel's Qualifications. Identify the individuals, including the project manager and site superintendent, who will be in responsible charge of the cutoff wall construction on the project. For each individual, include a list of at least three (3) reference projects on which the individual held the same position. The project manager shall have a minimum of five (5) years experience on cutoff wall projects, and superintendents shall have a minimum of three (3) years experience on cutoff wall projects. Substitution for identified individuals will not be permitted without the prior written consent of the Agency.

Individual's Name: Todd Lemmons
Present Position in the Organization: Project Manager
Proposed Position for Project: Project Manager
Years of Experience in Position Proposed for Project: 8
Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100

Reference Projects:

1. Project Name: Lower Feather River Setback Levee at Star Bend
 Owner's Representative: Levee District NH. 1
 Owner's Contact; Name: Bill Hampton Phone: (530) 673-2454
 Position Held by Individual: Project Manager
 Project Start/End Dates: 7/2009 - 4/30/2010 approx.
 Construction Activity Description: Levee degrading and reconstruction, construct setback levee, SB and SCB Slurry Cutoff walls (5X10⁻⁷) including wet-batching SB materials and mix control

2. Project Name: Phase 4 Feather River Levee Repair Project (Yuba County)
 Owner's Representative: Three Rivers Levee Improvement Authority
 Owner's Contact; Name: Doug Handen Phone: (916) 425-4662
 Position Held by Individual: Project Manager
 Project Start/End Dates: 7/2007 - 12/31/2008 approx
 Construction Activity Description: Levee degrade and reconstruction, construct SB and SCB slurry cutoff walls (5X10⁻⁷) including wet-batching backfill materials and mix control.

3. Project Name: Yuba River Levee Repair Project - Phase 4
 Owner's Representative: Three Rivers Levee Improvement Authority
 Owner's Contact; Name: Doug Handen Phone: (530) 673-2454

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Position Held by Individual: Project Manager
Project Start/End Dates: August 2006 / December 2006
Construction Activity Description: Raise existing levee and construct
SCB cutoff wall (548,000 sf)

4. Project Name: _____
Owner's Representative: _____
Owner's Contact; Name: _____ Phone: _____
Position Held by Individual: _____
Project Start/End Dates: _____
Construction Activity Description: _____

Individual's Name: Gary Brandon
Present Position in the Organization: Site Superintendent
Proposed Position for Project: Site Superintendent
Years of Experience in Position Proposed for Project: 30
Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100

Reference Projects:

1. Project Name: Lower Feather River Setback Levee at Star Bend
Owner's Representative: Levee District No. 1
Owner's Contact; Name: Bill Hampton Phone: (530) 673-2454
Position Held by Individual: Site Superintendent
Project Start/End Dates: 7/2009 - 4/30/2010 approx
Construction Activity Description: Levee degrading and reconstruction,
construct setback levee, SB and SCB Slurry Cutoff walls (5X10⁻¹)
including wet-batching SB materials and mix control
2. Project Name: Phase 4 Feather River Levee Repair Project (Yuba County)
Owner's Representative: Three Rivers Levee Improvement Authority
Owner's Contact; Name: Doug Handen Phone: (916) 425-4662
Position Held by Individual: Site Superintendent

Project Start/End Dates: 7/2007 - 12/31/2008 approx
Construction Activity Description: Levee degrade and reconstruction,
construct SB and SCB slurry cutoff walls (5X10⁷) including wet-
batching backfill materials and mix control

3. Project Name: Yuba River Levee Repair Project - Phase 4
Owner's Representative: Three Rivers Levee Improvement Authority
Owner's Contact; Name: Doug Handen Phone: (530) 673-2454
Position Held by Individual: Site Superintendent
Project Start/End Dates: August 2006 / December 2006
Construction Activity Description: Construct SCB Slurry Walls (5x10⁷)

4. Project Name: _____
Owner's Representative: _____
Owner's Contact; Name: _____ Phone: _____
Position Held by Individual: _____
Project Start/End Dates: _____
Construction Activity Description: _____

Individual's Name: R. Keith Kilpatrick
 Present Position in the Organization: Slurry Specialist/QC Tech for Geo Solutions Inc.
 Proposed Position for Project: Slurry Specialist/QC Tech for Geo Solutions Inc.
 Years of Experience in Position Proposed for Project: 20+
 Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100

Reference Projects:

SEE ATTACHED RESUME

1. Project Name: _____
 Owner's Representative: _____
 Owner's Contact; Name: _____ Phone: _____
 Position Held by Individual: _____
 Project Start/End Dates: _____
 Construction Activity Description: _____

2. Project Name: _____
 Owner's Representative: _____
 Owner's Contact; Name: _____ Phone: _____
 Position Held by Individual: _____
 Project Start/End Dates: _____
 Construction Activity Description: _____

3. Project Name: _____
 Owner's Representative: _____
 Owner's Contact; Name: _____ Phone: _____
 Position Held by Individual: _____
 Project Start/End Dates: _____
 Construction Activity Description: _____

4. Project Name: _____

Owner's Representative: _____
 Owner's Contact; Name: _____ Phone: _____
 Position Held by Individual: _____
 Project Start/End Dates: _____
 Construction Activity Description: _____

Individual's Name: Jason Kamine
Present Position in the Organization: Cutoff Wall Excavator Operator
Proposed Position for Project: Cutoff Wall Excavator Operator
Years of Experience in Position Proposed for Project: 5
Percentage of On-Site Time Individual will spend Managing/Supervising the Work: n/a

Reference Projects:

1. Project Name: Lower Feather River Setback Levee at Star Bend
 Owner's Representative: Levee District No. 1
 Owner's Contact; Name: Bill Hampton Phone: (530) 673-2454
 Position Held by Individual: Cutoff Wall Excavator Operator
 Project Start/End Dates: 7/2009 - 4/30/2010 approx
 Construction Activity Description: Levee degrading and reconstruction, construct setback levee, SB and SCB Slurry Cutoff walls (5X10⁻⁷) including wet-batching SB materials and mix control

2. Project Name: Phase 4 Feather River Levee Repair Project (Sutter County)
 Owner's Representative: Three Rivers Levee Improvement Authority
 Owner's Contact; Name: Doug Handen Phone: (916) 425-4662
 Position Held by Individual: Cutoff Wall Excavator Operator
 Project Start/End Dates: 7/2007 - 12/31/2008
 Construction Activity Description: Levee degrade and reconstruciton, construct SB and SCB slurry cutoff walls (5X10⁻⁷) including wet-batching backfill materials and mix control

3. Project Name: Yuba River Levee Repair Project - Phase 4
 Owner's Representative: Three Rivers Levee Improvement Authority

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Owner's Contact; Name: Doug Handen Phone: (530) 673-2454
Position Held by Individual: Cutoff Wall Excavator Operator
Project Start/End Dates: August 2006 / December 2006
Construction Activity Description: SCB cutoff Wall (548,000 sf)

4. Project Name: _____
Owner's Representative: _____
Owner's Contact; Name: _____ Phone: _____
Position Held by Individual: _____
Project Start/End Dates: _____
Construction Activity Description: _____

Staff Resume

R. Keith Kilpatrick
Slurry Specialist/QC Technician

INTRODUCTION

Mr. Kilpatrick has had a long career in construction, management and quality control. For the last twenty years, he has worked in the construction field, with the last ten years being involved in slurry wall construction. He has worked for specialty contractors where he served as field manager for slurry wall projects.

CREDENTIALS

Education

Mississippi Gulf Coast Junior College
 Hazwoper Course 40 hours plus annual updates

1976-1978

Experience Synopsis

Mr. Kilpatrick has in excess of 20 years experience in construction management and site operations. A significant portion of his experience has related to specialty environmental and geotechnical construction. His background includes multiple projects in each of the following areas:

Slurry cut-off walls	Bio-polymer slurry trench drains
Reactive Barrier Walls	In situ Soil Mixing

His initial work with in the specialty construction industry began as an operator and progressed to on-site foreman, then project manager, and now as Slurry Specialist. He previously has worked for the firms of Geo-Con, DD-M and ECC in the specialty construction field. He is computer-literate and produces field reports on a personal computer.

PROJECT EXPERIENCE (Selected Examples)

L-8 Canal Seepage Barrier, West Palm Beach County, FL (2004)

Slurry specialist for the construction of a soil-bentonite slurry wall of 270,000 sf up to 35 ft deep. Hard rock excavation and the remote location in sugar cane fields were special features of this project. Owner: South Florida Water Management District.

Building 360 PRB, Kelly USA, TX (2003)

QC specialist for the construction of the largest PRB constructed to date. The bio-polymer slurry trench installation of zero-valent iron was 900 ft long, up to 32 ft deep, and up to 10 ft wide. Construction was in urban area with numerous underground utilities. Owner: USAF

Cherokee NW Dam, Denver, CO (2003)

Slurry wall specialist for the construction of a soil-bentonite slurry wall 2400 ft long and up to 32 ft deep. Slurry wall serves as a foundation cutoff wall beneath new earthen dike. Owner: Excel Energy Corporation

FGD Pond # 2 Expansion, Point of Rocks, WY (2002-3)

Slurry wall specialist for the construction of a soil-cement-bentonite slurry wall 10,000 ft long and up to 27 ft deep. Slurry wall serves as a foundation cutoff wall beneath new earthen dike. Parts of slurry wall were constructed up to 10 ft below water level of adjoining dam by means of dewatering trench and special procedures. Owner: Pacific Power Corporation

25th Avenue SCB Slurry Wall; Greeley, CO (2002)

Assistant slurry wall specialist for the construction of a soil-cement-bentonite slurry wall 8600 ft long and up to 70 ft deep. Slurry wall impounds a former sand and gravel pit that is being converted into a water reservoir for the City of Greeley.

Stennis Space Center, MS – NASA (2002)

On site lead operator and foreman for the installation of five soil-bentonite slurry walls and three bio-polymer trench drains that form a funnel and gate system to treat agent orange, PCB, and TCE contaminated groundwater. The trenches were over 2000 lf and up to 50 ft deep. Project is phase 2 of a site closure for NASA.

Stennis Space Center, MS - NASA (2001)

On site lead operator for the installation of two soil-bentonite slurry walls around two waste disposal areas. The slurry walls were up to 60 ft deep and about 37,000 sf combined. Phase 1 of site closure for NASA.

Yuba City, CA - USACE (2001)

On-site supervision for the construction of a soil-bentonite slurry wall up to 65 ft deep and over mile long for a flood protection dike. Project was designed and managed by the Army Corp of Engineers.

Sacramento, CA – USACE (2000)

Project Manager with subcontractor to Inquip. Responsible for seven miles of levee restoration after completion of SCB slurry wall. Project was designed and managed by the Army Corp of Engineers.

Corpus Christi, TX – TECO (2000)

Served as operator, foreman, and slurry trench specialist for the construction of soil-bentonite slurry wall around hazardous waste landfill. Slurry wall was over 60 ft deep and one mile long.

Dumas, AR – USACE (1999)

Operator, foreman, and slurry trench specialist for one soil-bentonite slurry wall and three cement-bentonite slurry walls for the White River lock and dam. Project was constructed as a part of the lock and dam for navigation on the Arkansas River.

Section 3 - Cutoff Wall (Sub)Contractor's Qualifications. List at least three (3) projects that the cutoff wall (sub)contractor has completed since January 1, 1990. Briefly describe construction activities, emphasizing construction activities similar to those to be provided on this project, specifically including but not limited to: construction of SB slurry cutoff walls of similar depth and width, construction of SB slurry cutoff walls with 1×10^{-6} cm/sec hydraulic conductivity (permeability) requirements and experience with wet-batching SB materials and mix control. Projects qualifying for relevant experience shall have a minimum wall length of 500 feet and a minimum wall depth of 50 feet.

Project 1: Name: American River Pocket Geotechnical

Location: Sacramento, CA

Start Date: August, 2006 Completion Date: December, 2006

Wall Length: 1,700ft Wall Depth: 112ft Wall Permeability: 5×10^{-7} cm/sec

Owner's Representative: John Sisley (Retired Project Engineer)

Owner Contact; Name: USACE-Sac. District Phone: 209-607-7127

Construction Activity Description: Construction of 192,500 SF deep soil mixing cutoff to a maximum depth of 112ft utilizing the 3-auger mixing rig which meet the specifications of the Phase 2B Project. The cutoff wall achieved a permeability of 5×10^{-7} cm/sec.

Performed Work as:	Prime Contractor	<u>NO</u>	Subcontractor	<u>YES</u>
		Yes/No		Yes/No

Project 2: Name: Natomas Cross Canal South Levee Phase 1

Location: Sacramento, CA

Start Date: July, 2007 Completion Date: November, 2007

Wall Length: 4,500ft Wall Depth: 85ft Wall Permeability: 1×10^{-6} cm/sec

Owner's Representative: John Bassett

Owner Contact; Name: SAFCA Phone: 916-704-8731

Construction Activity Description: Construction of 415,000 SF deep soil mixing cutoff wall to a maximum depth of 85ft utilizing the 3-auger mixing rig which meet the specifications of the Phase 2B Project. The cutoff wall achieved a permeability of 1×10^{-6} cm/sec.

Performed Work as:	Prime Contractor	<u>NO</u>	Subcontractor	<u>YES</u>
		Yes/No		Yes/No

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Project 3: Name: Sacramento East Bank Levee Project

Location: Sacramento, CA

Start Date: May, 2005 Completion Date: October, 2005

Wall Length: _____ Wall Depth: 110ft Wall Permeability: 1x10⁻⁶ cm/sec

Owner's Representative: John Sisley (Retired Project Engineer)

Owner Contact; Name: USACE-Sac. District Phone: 209-607-7127

Construction Activity Description: Construction of 286,000 SF deep soil mixing cutoff wall to a depth of 110ft. The project was constructed using the soil mixing method specified for this project Phase 2B.

<u>Performed Work as:</u>	<u>Prime Contractor</u>	<u>YES</u>	<u>Subcontractor</u>	<u>NO</u>
		<u>Yes/No</u>		<u>Yes/No</u>

Project 4: Name: _____

Location: _____

Start Date: _____ Completion Date: _____

Wall Length: _____ Wall Depth: _____ Wall Permeability: _____

Owner's Representative: _____

Owner Contact; Name: _____ Phone: _____

Construction Activity Description: _____

<u>Performed Work as:</u>	<u>Prime Contractor</u>	_____	<u>Subcontractor</u>	_____
		<u>Yes/No</u>		<u>Yes/No</u>

Position Held by Individual: Project Manager
 Project Start/End Dates: May, 2005 – October, 2005
 Construction Activity Description: Construction of 286,000 SF deep soil mixing cutoff wall depth of 110ft. The project was constructed using the soil mixing method specified for this project Phase 2B.

4. Project Name:

Owner's Representative: _____
 Owner's Contact; Name: _____ Phone: _____
 Position Held by Individual: _____
 Project Start/End Dates: _____
 Construction Activity Description: _____

Individual's Name: Ron Diaz
 Present Position in the Organization: Superintendent
 Proposed Position for Project: Superintendent/Deep Soil Mixing Specialist
 Years of Experience in Position Proposed for Project: 10
 Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100%

Reference Projects:

1. Project Name: Natomas Cross Canal Phase 1
 Owner's Representative: John Bassett
 Owner's Contact; Name: SAFCA Phone: 916-704-8731
 Position Held by Individual: Superintendent/Deep Soil Mixing Specialist
 Project Start/End Dates: July, 2007 – November, 2007
 Construction Activity Description: Construction of 415,000 SF deep soil mixing cutoff wall to a maximum depth of 85ft utilizing the 3-auger mixing rig which meet the specifications of the Phase-2B Project. The cutoff wall achieved a permeability of 1×10^{-6} cm/sec.

2. Project Name: Pocket Geotechnical
 Owner's Representative: John Sisley (Retired Project Engineer)
 Owner's Contact; Name: USACE-Sac. District Phone: 209-607-7127
 Position Held by Individual: Superintendent/Deep Soil Mixing Specialist

Project Start/End Dates: August, 2006 – December, 2006

Construction Activity Description: Construction of 192,500 SF deep soil mixing cutoff to a depth of 112ft utilizing the 3-auger mixing rig which meet the specifications of the Phase 2B Project. The cutoff wall achieved a permeability of 5×10^{-7} cm/sec.

3. Project Name: Sacramento East Bank Levee

Owner's Representative: John Sisley (Retired Project Engineer)

Owner's Contact; Name: USACE-Sac. District Phone: 209-607-7127

Position Held by Individual: Superintendent/Deep Soil Mixing Specialist

Project Start/End Dates: May, 2005 – October, 2005

Construction Activity Description: Construction of 286,000 SF deep soil mixing cutoff wall depth of 110ft. The project was constructed using the soil mixing method specified for this project Phase 2B.

4. Project Name: _____

Owner's Representative: _____

Owner's Contact; Name: _____ Phone: _____

Position Held by Individual: _____

Project Start/End Dates: _____

Construction Activity Description: _____

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Individual's Name: Wailaini Chun & Dave Husak
 Present Position in the Organization: Deep Soil Mixing Operators
 Proposed Position for Project: Deep Soil Mixing Operator
 Years of Experience in Position Proposed for Project: 10 (Wailaini Chun) & 12 (Dave Husak)
 Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100%

Reference Projects:

1. Project Name: Natomas Cross Canal Phase 1
 Owner's Representative: John Bassett
 Owner's Contact Name: SAFCA Phone: 916-704-8731
 Position Held by Individual: DSM Operator
 Project Start/End Dates: July, 2007 – November, 2007
 Construction Activity Description: Construction of 415,000 SF deep soil mixing cutoff wall to a maximum depth of 85ft utilizing the 3-auger mixing rig which meet specifications of the Phase 2B Project. The cutoff wall achieved a permeability of 5×10^{-7} cm/sec.
2. Project Name: Pocket Geotechnical
 Owner's Representative: John Sisley (Retired Project Engineer)
 Owner's Contact Name: USACE-Sac. District Phone: 209-607-7127
 Position Held by Individual: DSM Operator
 Project Start/End Dates: August, 2006 – December, 2006
 Construction Activity Description: Construction of 192,500 SF deep soil mixing cutoff to a depth of 112ft utilizing the 3-auger mixing rig which meet the specifications of the Phase 2B Project. The cutoff wall achieved a permeability of 5×10^{-7} cm/sec.
3. Project Name: Sacramento East Bank Levee
 Owner's Representative: John Sisley (Retired Project Engineer)
 Owner's Contact Name: USACE-Sac. District Phone: 209-607-7127
 Position Held by Individual: DSM Operator
 Project Start/End Dates: May, 2005 – October, 2005
 Construction Activity Description: Construction of 286,000 SF deep soil mixing cutoff wall depth of 110ft. The project was constructed using the soil mixing method specified for this project Phase 2B.

4. Project Name: _____

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Owner's Representative: _____
 Owner's Contact; Name: _____ Phone: _____
 Position Held by Individual: _____
 Project Start/End Dates: _____
 Construction Activity Description: _____

Individual's Name: Charlie Davis
 Present Position in the Organization: Deep Soil Mixing Operator
 Proposed Position for Project: Deep Soil Mixing Operator
 Years of Experience in Position Proposed for Project: 10
 Percentage of On-Site Time Individual will spend Managing/Supervising the Work: _____

Reference Projects:

1. Project Name: Natomas Cross Canal Phase 1
 Owner's Representative: John Bassett
 Owner's Contact; Name: SAFCA Phone: 916-704-8731
 Position Held by Individual: DSM Operator
 Project Start/End Dates: July, 2007 – November, 2007
 Construction Activity Description: Construction of 415,000 SF deep soil mixing cutoff wall to a maximum depth of 85ft utilizing the 3-auger mixing rig which meet specifications of the Phase 2B Project. The cutoff wall achieved a permeability of 5×10^{-7} cm/sec.

2. Project Name: Pocket Geotechnical
 Owner's Representative: John Sisley (Retired Project Engineer)
 Owner's Contact; Name: USACE-Sac. District Phone: 209-607-7127
 Position Held by Individual: DSM Operator
 Project Start/End Dates: August, 2006 – December, 2006
 Construction Activity Description: Construction of 192,500 SF deep soil mixing cutoff to a depth of 112ft utilizing the 3-auger mixing rig which meet the specifications of the Phase 2B Project. The cutoff wall achieved a permeability of 5×10^{-7} cm/sec.

3. Project Name: Sacramento East Bank Levee
 Owner's Representative: John Sisley (Retired Project Engineer)

Owner's Contact; Name: USACE-Sac. District Phone: 209-607-7127
 Position Held by Individual: DSM Operator
 Project Start/End Dates: May, 2005 – October, 2005
 Construction Activity Description: Construction of 286,000 SF deep soil mixing cutoff wall to a depth of 110ft. The project was constructed using the soil mixing method specified for this project Phase 2B.

4. Project Name:

Owner's Representative: _____
 Owner's Contact; Name: _____ Phone: _____
 Position Held by Individual: _____
 Project Start/End Dates: _____
 Construction Activity Description: _____

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Section 3 - Cutoff Wall (Sub)Contractor's Qualifications. List at least three (3) projects that the cutoff wall (sub)contractor has completed since January 1, 1990. Briefly describe construction activities, emphasizing construction activities similar to those to be provided on this project, specifically including but not limited to: construction of SB slurry cutoff walls of similar depth and width, construction of SB slurry cutoff walls with 1×10^{-6} cm/sec hydraulic conductivity (permeability) requirements and experience with wet-batching SB materials and mix control. Projects qualifying for relevant experience shall have a minimum wall length of 500 feet and a minimum wall depth of 50 feet.

Project 1: Name: Natomas Cross Canal Phase 2

Location: Sacramento, CA

Start Date: June, 2009 Completion Date: August, 2009

Wall Length: 6,600ft Wall Depth: 81ft (max) Wall Permeability: 1×10^{-6} cm/sec

Owner's Representative: John Bassett

Owner Contact; Name: SAFCA Phone: 916-704-8731

Construction Activity Description: Construction of 510,000 SF soil-bentonite cutoff wall to a maximum depth of 82ft. The cutoff wall met a permeability of 1×10^{-7} cm/sec exceeding the specification requirement of 1×10^{-6} cm/sec. The width of the cutoff wall is 3ft.

Performed Work as:	Prime Contractor	<u>NO</u>	Subcontractor	<u>YES</u>
		Yes/No		Yes/No

Project 2: Name: Feather River Phase 4

Location: Marysville, CA

Start Date: June, 2008 Completion Date: October, 2008

Wall Length: 16,000ft Wall Depth: 85ft (max) Wall Permeability: 5×10^{-7} cm/sec

Owner's Representative: Doug Handen

Owner Contact; Name: Three Rivers Levee Improv. Phone: 916-425-4662

Construction Activity Description: Construction of 1,200,000 SF soil-bentonite cutoff wall to be a maximum depth of 85ft. The cutoff wall width of 3ft met the maximum permeability requirement of 5×10^{-7} cm/sec.

Performed Work as:	Prime Contractor	<u>NO</u>	Subcontractor	<u>YES</u>
		Yes/No		Yes/No

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Project 3: Name: SMP 32 Soil-bentonite Slurry Cutoff Wall

Location: Sunol, CA

Start Date: February, 2006 Completion Date: June, 2006

Wall Length: 10,500ft Wall Depth: 70-80ft Wall Permeability: 1×10^{-7} cm/sec

Owner's Representative: Eric Riddiough

Owner Contact; Name: Han Aggregates Phone: 925-862-2257

Construction Activity Description: Construction of 770,000 SF soil-bentonite cutoff wall to a maximum depth of 80ft. The cutoff wall with a width of 3ft met a maximum permeability of 1×10^{-7} cm/sec

Performed Work as:	Prime Contractor	<u>YES</u>	Subcontractor	<u>NO</u>
		Yes/No		Yes/No

Project 4: Name: _____

Location: _____

Start Date: _____ Completion Date: _____

Wall Length: _____ Wall Depth: _____ Wall Permeability: _____

Owner's Representative: _____

Owner Contact; Name: _____ Phone: _____

Construction Activity Description: _____

Performed Work as:	Prime Contractor	_____	Subcontractor	_____
		Yes/No		Yes/No

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Section 4 - Cutoff Wall (Sub)Contractor's Personnel's Qualifications. Identify the individuals, including the project manager and site superintendent, who will be in responsible charge of the cutoff wall construction on the project. For each individual, include a list of at least three (3) reference projects on which the individual held the same position. The project manager shall have a minimum of five (5) years experience on cutoff wall projects, and superintendents shall have a minimum of three (3) years experience on cutoff wall projects. Substitution for identified individuals will not be permitted without the prior written consent of the Agency.

Individual's Name: Sean Rhodes
Present Position in the Organization: Project Director
Proposed Position for Project: Project Manager
Years of Experience in Position Proposed for Project: 12
Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100%

Reference Projects:

1. Project Name: Natomas Phase 1B
Owner's Representative: SAFCA
Owner's Contact; Name: John Bassett Phone: 916-704-8731
Position Held by Individual: Project Manager
Project Start/End Dates: July, 2008 – December, 2008
Construction Activity Description: Levee Degrade, Construction of 295,000 SF soil-bentonite cutoff wall, and levee embankment construction.

2. Project Name: Bear River Setback Levee
Owner's Representative: Doug Handen
Owner's Contact; Name: Three Rivers Levee Improv. Phone: 916-425-4662
Position Held by Individual: Project Manager
Project Start/End Dates: July, 2005 – November, 2005
Construction Activity Description: Construction of 435,000 SF soil-bentonite cutoff wall at the proposed alignment of the Bear River Setback Levee.

3. Project Name: Feather River Levee Phase 4
Owner's Representative: Doug Handen
Owner's Contact; Name: Three Rivers Levee Improv. Phone: 916-425-4662

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Position Held by Individual: Project Manager
Project Start/End Dates: June, 2008 -- October, 2008
Construction Activity Description: Construction of 1,200,000 SF soil-bentonite cutoff wall to a maximum depth of 85ft.

4. Project Name: Natomas Cross Canal Phase 2
Owner's Representative: John Bassett
Owner's Contact; Name: SAFCA Phone: 916-704-8731
Position Held by Individual: Project Manager
Project Start/End Dates: June, 2009 -- August, 2009
Construction Activity Description: Construction of 519,000 SF soil-bentonite cutoff wall to a maximum depth of 85ft.

Individual's Name: James Beebe
Present Position in the Organization: Construction Manager
Proposed Position for Project: Superintendent/Cutoff Wall Specialist
Years of Experience in Position Proposed for Project: 20
Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100%

Reference Projects:

1. Project Name: American River Contract 1
Owner's Representative: John Sisley (Retired Project Engineer)
Owner's Contact; Name: USACE-Sac. District Phone: 209-607-7127
Position Held by Individual: Superintendent/Slurry Trench Specialist
Project Start/End Dates: April, 2000 -- November, 2000
Construction Activity Description: Construction of 1,100,000 SF soil-cement-bentonite cutoff wall to a maximum depth of 75ft.

2. Project Name: American River Contracts 2
Owner's Representative: John Sisley (Retired Project Engineer)
Owner's Contact; Name: USACE-Sac. District Phone: 209-607-7127
Position Held by Individual: Superintendent/Slurry Trench Specialist

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Project Start/End Dates: April, 2001 -- November, 2002

Construction Activity Description: Construction of 2,000,000 SF soil-cement-bentonite cutoff wall to a maximum depth of 79ft.

3. Project Name: Natomas Phase 1B

Owner's Representative: SAFCA

Owner's Contact; Name: John Bassett Phone: 916-704-8731

Position Held by Individual: Superintendent/Slurry Trench Specialist

Project Start/End Dates: July, 2008 -- December, 2008

Construction Activity Description: Levee Degrade, Construction of 295,000 SF soil-bentonite cutoff wall, and levee embankment construction.

4. Project Name: Natomas Cross Canal Phase 2

Owner's Representative: John Bassett

Owner's Contact; Name: SAFCA Phone: 916-704-8731

Position Held by Individual: Superintendent/Slurry Trench Specialist

Project Start/End Dates: June, 2009 -- August, 2009

Construction Activity Description: Construction of 510,000 SF soil-bentonite cutoff wall to a maximum depth of 85ft.

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Individual's Name: Grant Perry & Kevin Rose
Present Position in the Organization: Long Reach Operator
Proposed Position for Project: Long Reach Operator
Years of Experience in Position Proposed for Project: 18 (Grant Perry) & 20 (Kevin Rose)
Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100%

Reference Projects:

1. Project Name: Natomas Phase 1B
Owner's Representative: SAFCA
Owner's Contact; Name: John Bassett Phone: 916-704-8731
Position Held by Individual: Long Reach Operator
Project Start/End Dates: July, 2008 – December, 2008
Construction Activity Description: Levee Degrades, Construction of 295,000 SF soil-bentonite cutoff wall, and levee embankment construction.

2. Project Name: Bear River Setback Levee
Owner's Representative: Doug Handen
Owner's Contact; Name: Three Rivers Levee Improv. Phone: 916-425-4662
Position Held by Individual: Long Reach Operator
Project Start/End Dates: July, 2005 – November, 2005
Construction Activity Description: Construction of 435,000 SF soil-bentonite cutoff wall at the proposed alignment of the Bear River Setback Levee.

3. Project Name: Feather River Levee Phase 4
Owner's Representative: Doug Handen
Owner's Contact; Name: Three Rivers Levee Improv. Phone: 916-425-4662
Position Held by Individual: Long Reach Operator
Project Start/End Dates: June, 2008 -- October, 2008
Construction Activity Description: Construction of 1,200,000 SF soil-bentonite cutoff wall to a maximum depth of 85ft.

4. Project Name: _____

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Owner's Representative: _____

Owner's Contact Name: _____

Phone: _____

Position Held by Individual: _____

Project Start/End Dates: _____

Construction Activity Description: _____

Individual's Name: David Gayer

Present Position in the Organization: Long Reach Operator

Proposed Position for Project: Long Reach Operator

Years of Experience in Position Proposed for Project: 15

Percentage of On-Site Time Individual will spend Managing/Supervising the Work: 100%

Reference Projects:

1. Project Name: Bear River Setback Levee

Owner's Representative: Doug Handen

Owner's Contact Name: Three Rivers Levee Improv. Phone: 916-425-4662

Position Held by Individual: Long Reach Operator

Project Start/End Dates: July, 2005 – November, 2005

Construction Activity Description: Construction of 435,000 SF soil-bentonite cutoff wall at the proposed alignment of the Bear River Setback Levee.

2. Project Name: American River Contracts 1&2

Owner's Representative: John Sisley (Retired Project Engineer)

Owner's Contact Name: USACE-Sac. District Phone: 209-607-7127

Position Held by Individual: Long Reach Operator

Project Start/End Dates: April, 2000 – December, 2002

Construction Activity Description: Construction of 3,100,000 SF soil-cement-bentonite cutoff wall to a maximum depth of 79ft.

3. Project Name: Feather River Levee Phase 4

Owner's Representative: Doug Handen

Owner's Contact Name: Three Rivers Levee Improv. Phone: 916-425-4662
Position Held by Individual: Long Reach Operator
Project Start/End Dates: June, 2008 -- October, 2008
Construction Activity Description: Construction of 1,200,000 SF soil-bentonite
cutoff wall to a maximum depth of 85ft.

4. Project Name:

Owner's Representative: _____
Owner's Contact Name: _____ Phone: _____
Position Held by Individual: _____
Project Start/End Dates: _____
Construction Activity Description: _____

Section 5 - Contractor's General References. Identify a minimum of three (3) general references including contact names and phone numbers of each reference. References should not be suppliers and should not be subcontractors identified in Attachment A or Attachment B or any other member of the Bidder's team.

A. Name: Bill Hampton
Agency/Organization: Levee District No. 1 of Sutter County
Relationship to Bidder: Client
Address: 250 Second Street, Yuba City, CA 95991
Phone Number: 530-673-2454

B. Name: Blake Johnson
Agency/Organization: HDR
Relationship to Bidder: Client
Address: 2365 Iron Point Road, Suite 300, Folsom, Ca 95630-8709
Phone Number: 916-817-4700

C. Name: Michael Blickle
Agency/Organization: Reclamation District 1000
Relationship to Bidder: Client
Address: 1633 Garden Highway, Sacramento, CA 95833
Phone Number: 916-922-1449

D. Name: _____
Agency/Organization: _____
Relationship to Bidder: _____
Address: _____
Phone Number: _____

E. Name: _____
Agency/Organization: _____
Relationship to Bidder: _____
Address: _____
Phone Number: _____