#### DEPARTMENT OF HAWAIIAN HOME LANDS STATE OF HAWAII

#### JUNE 13, 2012

#### ADDENDUM NO. 2

TO PROPOSAL, SPECIFICATIONS, CONTRACT AND BOND FOR IFB NO.: IFB-12-HHL-004

# EAST KAPOLEI II DEVELOPMENT, ROAD E EXTENSION

LOCATION: HONOULIULI, EWA, OAHU, HAWAII TAX MAP KEY: 9-1-17: 75

#### NOTICE TO ALL PROSPECTIVE BIDDERS

This addendum is hereby made a part of the contract documents for EAST KAPOLEI II DEVELOPMENT, ROAD E EXTENSION, HONOULIULI, EWA, OAHU, HAWAII, and it shall amend the said contract documents as detailed within this Addendum document.

APPROVED:	
Jobie M. K. Masagatani, Chairman Designate Hawaiian Homes Commission	Date: June 13, 2012
Please detach, execute, and return immediately, the Hawaiian Home Lands, P. O. Box 1879, Honolulu, HI 9	* *
 Receipt of Addendum No. 2 for EAST KAPOLEI II DEY HONOULIULI, EWA, OAHU, HAWAII, is hereby acknowledge.	•
Signed	Title
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#### ADDENDUM NO. 2

# TO PROPOSAL, SPECIFICATIONS, CONTRACT AND BOND FOR EAST KAPOLEI II DEVELOPMENT, ROAD E EXTENSION, HONOULIULI, EWA, OAHU, HAWAII TAX MAP KEY: 9-1-17: 75 IFB-12-HHL-004

IFB-12-HHL-004 is revised as follows:

#### **NOTICE TO BIDDERS**

1. The Notice to Bidders is amended as follows:

SEALED BIDS for IFB No: IFB-12-HHL-004, East Kapolei II Development, Road E Extension, Honouliuli, Ewa, City and County of Honolulu, State of Hawaii, will be received by the Department of Hawaiian Home Lands (DHHL), at Hale Kalanianaole, 91-5420 Kapolei Parkway, Kapolei, Hawaii 96707, until 2:00 p.m., Hawaii Standard Time (H.S.T.) June 13 20, 2012, at which time all bids will be publicly opened and read aloud.

#### CONTRACTOR'S SUBMITTALS - BID OFFER FORM

1. Delete the Bid Offer Form in its entirety and replace with Addendum No. 2 (June 13, 2012) Bid Offer Form, Attachment 1 to this addendum.

#### TECHNICAL SPECIFICATIONS

- 1. Section 02731 Sanitary Sewer System. Replace page 02731-1 with the attached Addendum No. 2 page 02731-1
  - a. A change has been made to Section 1.02 Work Included. Under the list of DPW Standard Specifications the "Vitrified Clay Sewer Pipe and Appurtenances....
     Section 18" has been changed to "PVC Sewer Pipe and
    - Appurtenances...... Section 21".
  - b. A change has been made to Section 2.01 Materials, Item A. Sewer Pipe. The material "Vitrified Clay Pipe, Extra Strength" has been changed to "Polyvinyl Chloride Pipe, C-900, Class 150 (DR 18)".

#### **CONSTRUCTION PLANS**

1. All Addendum No. 2 revisions coincide with Delta 2 revisions on plans. Delete drawings (below), and replace with the revised drawings Delta 2.

DWG.	ITEM NO.	GENERAL DESCRIPTION OF REVISION
C-5		EROSION CONTROL PLAN
	1	Revised callouts for Dust Fence.
C-10		PLAN AND PROFILE ROAD "A"
	1	Added call out for 18" RCP at Lot 3.
	2	Added call out for 8" PVC Sewer at Lot 4.
C-19		DIAGONAL SPLITTER DETAIL
	1	Revised dimension line on Construction Plan.

DWG. NO:	ITEM NO.	GENERAL DESCRIPTION OF REVISION
L-5		LANDSCAPE DETAIL, LEGEND, AND NOTES
	1	Under Plant Schedule: for Rainbow Shower Tree revised cont. from "Field Stock" to "25 gallon."

#### **REQUESTS FOR CLARIFICATION**

Question: On line item 17 class B concrete sidewalk, is the 18: thick aggregate sub base required under the sidewalk only or not in the planter strip. Please advise.

Response: A revised bid proposal form will be issued via Addendum no. 2.

Question: Section 02500 Road Pavement and 02501 Asphalt Concrete Base did not show any information about using recycle material in the mixes. For example State projects allow up to 20 percent RAP (Recycle Asphalt Pavement) aggregate in the surface and binder courses. Allowance for City projects for batch plants, aggregate for ACB may include RAP quantities up to 30 percent of total mix weight. For drum type dryer-mixer type plants aggregate for ACB may include RAP quantities up to 40 percent of total mix weight. Can you specify if this will be an option on this project as well?

Response: Recycle Asphalt Pavement (RAP) is not an option for this contract.

Question: There seems to be a significant difference in the plan quantities and those reflected in the proposal form. Would it be possible to have this reconciled along with the storm drainage structure quantities prior to the bid date?

DESCRIPTION	Proposal Form	~Plan Sheets
Storm Drainage	(ft)	(ft)
60" RCP	705	715
54" RCP	789	894
48" RCP	138	280
42" RCP	1,116	770
36" RCP	127	220
30" RCP	120	130
24" RCP	812	680
18" RCP	718	660

Response: A revised bid proposal form will be issued via Addendum no. 2.

Question: Plans show 54 EA Rainbow Shower Trees, FS, but the bid proposal is 25 gallons. Which one should we price out?

Response: All trees shall be 25 gallon size. Revised drawing L-5.

Question: Could you also include clarification about the sewer pipe materials in your next addendum? The plans show C-900 PVC, but the specifications for the sewer lists only VCP.

Response: Technical Specification Section 02731 has been revised to reference Polyvinyl Chloride Pipe, C-900, Class 150(DR18). Please see Addendum No. 2.

# STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS

#### BID OFFER FORM FOR

#### EAST KAPOLEI II DEVELOPMENT ROAD "E"

#### HONOULIULI, EWA, ISLAND OF OAHU, HAWAII

TAX MAP KEY: 9-1-17: PORTION OF 110

IFB NO.: IFB-12-HHL-004

Ms. Jobie M. K. Masagatani, Chairman Designate Hawaiian Homes Commission Department of Hawaiian Home Lands 91-5420 Kapolei Parkway Kapolei, Hawaii 96707

#### Dear Ms. Masagatani:

The undersigned has carefully examined, read, and understands the terms and conditions in the Specifications, Special Conditions attached hereto, DHHL Interim General Conditions, and General Conditions specified in the Invitation for Bids (IFB) No. IFB-12-HHL-004. The State of Hawaii's (State) Contract for Goods and Services Based on Competitive Sealed Bids AG-003 Rev. 6/22/2009, General Conditions, AG-008 Rev. 4/15/2009, are included by reference and made part hereof and available upon written request to the Procurement Officer. The undersigned herby submits the following offer to perform the work for IFB No. IFB-12-HHL-004 as specified herein, all in accordance with the true intent and meaning thereof.

#### The undersigned understands and agrees that:

- 1. The State reserves the right to reject any and all offers and to waive any items that are defective when, in the State's opinion, such rejection or waiver will be in the best interest of the State. A solicitation may be rejected in whole or part when in the best interest of the State.
- 2. If awarded the contract, all services will be in accordance with Hawaii Revised Statutes (HRS) § 103-55.5
- 3. In submitting this offer, the Offeror is not in violation of HRS Chapter 84, concerning prohibited State contracts.
- 4. By submitting this offer, the Offeror certifies that the offer was independently arrived at without collusion and the Offeror did not participate in any practices to restrict competition.
- 5. It is understood that the failure to receive any addendum shall not relieve the Offeror from any obligation under this IFB.

Date:	
	under the laws of the State of Hawaii; <b>OR</b> porated or organized under the laws of the State of Hawaii, is or the trunk of Commerce and Consumer Affairs Business Registration
State of incorporation:	
Offeror is:  □ Sole Proprietor □ Partnership □ Corpora	ation   Joint Venture   Other:
Federal ID No.:	
Hawaii General Excise Tax ID No.:	
Telephone No.:	
Fax No.:	
E-Mail Address.:	
Payment address (other than street address below)	
(Street Addre	ess, City, State, Zip Code)
Business address	
(Street Addre	ess, City, State, Zip Code)
	Respectfully submitted:
	Authorized (Original) Signature
	Name and Title (Please Type or Print)
	*
	Exact Legal Name of Company (Offeror)
*If Offeror shown above is a "dba" or a "division" o under which the awarded contract will be executed:	f a corporation, furnish the exact legal name of the corporation

The following bid is hereby submitted for IFB-12-HHL-004 for the Department of Hawaiian Home Lands.

Item	Estimated		Unit	
No.	Quantity	Description	Price	Total
The pric	es bid herein for the fo	I DEVELOPMENT, ROAD "E" lowing items shall include all mate install or to construct these items in	, , , , , ,	

ROAD C	CONSTRUCTION	<u>1</u>	
1.	5	Each, Wire mesh filter for field inlets, including installation, maintenance and removal, in place complete.	
		Each	\$ \$
2.	3	Each, Wire mesh filter, gravel and silt fence for catch basin and drainage manholes, including installation, maintenance and removal, in place complete.	
		Each	\$ \$
3.	21	Each, Sediment control filter at catch basins, including installation, maintenance and removal, in place complete.	
		Each	\$ \$
4.	2,172	Lin. Ft., Dust fence including construction, maintenance and removal, to be used only as directed or approved by the Engineer, in place complete. Contingent item.	
		Per Lin. Ft.	\$ \$
5.	320	Lin. Ft., Silt fence, including construction, maintenance and removal, to be used only as directed or approved by the Engineer, in place complete. (Contingent item)	
		Per Lin. Ft.	\$ \$
6.	L. S.	Temporary erosion control, inclusive of maintenance of existing temporary ingress/egress, maintenance of existing Sediment Basins #1 and #2 constructed under "East Kapolei II Portion of Lot 6A Mass Grading Plans," and NPDES permit requirements, in place complete.	
		Lump Sum	\$

the plans and specifications.

7.	L. S.	Mobilization, including obtaining insurance, bonds, permits, scheduling, submittals and other activities to mobilize the project, in place complete. (Maximum \$50,000)	
		Lump Sum	\$
8.	233,350	Sq. Ft., Fine grading of road area, in place complete.	
		Per Sq. Ft.	\$ \$
9.	2,180	Cu. Yds., 5.5" dnd asphalt treated base course/glassphalt, in place complete.	
		Per Cu. Yd.	\$ \$
10.	9,460	Sq. Yds., 2" asphaltic concrete pavement, in place complete.	
		Per Sq. Yd.	\$ \$
11.	4,510	Sq. Yds., 2-1/2" asphaltic concrete pavement, in place complete.	
		Per Sq. Yd.	\$ \$
12.	40	Sq. Yds., 2" to 2-1/2" asphaltic concrete pavement transition, in place complete.	
		Per Sq. Yd.	\$ \$
13.	4,576	Cu. Yds., 18" Aggregate subbase course under 4" concrete sidewalks, curb ramps, and planter, in place complete	
		Per Cu. Yd.	\$ \$
14.	5,460	Cu. Yds., 11" and 12" aggregate subbase course under pavement, curbs and gutters, in place complete.	
		Per Cu. Yd.	\$ \$
15.	124	Lin. Ft., Standard concrete curb, in place complete.	
		Per Lin. Ft.	\$ \$
16.	6,080	Lin. Ft., Standard cast-in-place integral curb and gutter, per DPW Standard Detail R-4A (revised), in place complete.	
		Per Lin. Ft.	\$ \$

17.	3,090	Sq. Ft., 6" thick Class "A" concrete driveway apron, reinforced with 6"x6"-6/6 galvanized wire fabric, broom finished, in place complete. Payment of 24" thick aggregate subbase course shall be incidental to this work.	
		Per Sq. Ft.	\$ \$
18.	38,600	Sq. Ft., Class "B" concrete sidewalk, 4" thick, including curb ramps and concrete slab in the median, in place complete. Payment for 18" thick aggregate subbase shall be incidental to this work.	
		Per Sq. Ft.	\$ \$
19.	2	Each, Remove NO PARKING sign and post, salvage, repair post hole and posts, in place complete.	
		Each	\$ \$
20.	2	Each, Reinstall salvaged NO PARKING sign and posts, in place complete.	
		Each	\$ \$
21.	18	Each, Traffic sign with post, in place complete.	
		Each	\$ \$
22.	37	Each, Traffic sign without post, including straps, in place complete.	
		Each	\$ \$
23.	15	Each, Type III barricade, in place complete.	
		Each	\$ \$
24.	7	Each, Road closed sign, 48" x 30" R11-2 mounted on Type III barricade, in place complete.	
		Each	\$ \$
25.	7	Each, Wooden barricade, City and County of Honolulu standards, in place complete.	
		Each	\$ \$
26.	9	Each, Standard City and County street survey monument, in place complete.	
		Each	\$ \$

27.	1	Each, Standard street name sign, in place complete.		
		Each	\$	\$
28.	L. S.	Pavement markings, including striping, words, stop bars, and reflective markers, in place complete.		
		Lump Sum		\$
29.	L. S.	Demolish existing Road "E" turnaround, removing existing AC pavement to top of existing base course, curb to curb to Station 7+50. Remove all other existing AC pavement, base course, AC curbs and concrete headers.		
		Lump Sum		\$
30.	L. S.	Project sign, including installation and removal, in place complete.		
		Lump Sum		\$
31.	L.S.	Field office, including installation and removal, in place complete.		
		Lump Sum		\$
		TOTAL – ROAD CONSTRUCTION		
		(Items 1 to 31, inclusive)		\$
DRAINAGE S	SYSTEM			
32.	8,272	Cu. Yds., Unclassified excavation for drain lines, catch basins and DMH, including backfill and pipe cushion, in place complete.		
		Per Cu. Yd.	\$	\$
33.	740	Lin. Ft., 60" reinforced concrete drainpipe, Class III, in place complete.		
		Per Lin. Ft.	\$	\$
34.	914	Lin. Ft., 54" reinforced concrete drainpipe, Class III, in place complete.		
		Per Lin. Ft.	\$	\$
35.	274	Lin. Ft., 48" reinforced concrete drainpipe, Class III, in place complete.	e .	
		Per Lin. Ft.	\$	\$

36.	694	Lin. Ft., 42" reinforced concrete drainpipe, Class III, in place complete.	
		Per Lin. Ft.	\$ \$
37.	209	Lin. Ft., 36" reinforced concrete drainpipe, Class III, in place complete.	
		Per Lin. Ft.	\$ \$
38.	120	Lin. Ft., 30" reinforced concrete drainpipe, Class III, in place complete.	
		Per Lin. Ft.	\$ \$
39.	660	Lin. Ft., 24" reinforced concrete drainpipe, Class III, in place complete.	
		Per Lin. Ft.	\$ \$
40.	647	Lin. Ft., 18" reinforced concrete drainpipe, Class III, in place complete.	
		Per Lin. Ft.	\$ \$
41.	1	Each, Standard reinforced concrete catch basin, Type "A," 4.00' to 4.99' deep, in place complete.	
		Each	\$ \$
42.	7	Each, Standard reinforced concrete catch basin, Type "A," 5.00' to 599' deep, in place complete.	
		Each	\$ \$
43.	1	Each, Standard reinforced concrete catch basin, Type "A," 7.00' to 7.99' deep, in place complete.	
		Each	\$ \$
44.	1	Each, Standard reinforced concrete catch basin, Type "B," 5.00' to 5.99' deep, in place complete.	
		Each	\$ \$
45.	2	Each, Standard reinforced concrete catch basin, Type "B," 6.00' to 6.99' deep, in place complete.	
		Each	\$ \$
46.	1	Each, Standard reinforced concrete catch basin, Type "D," 4.00' to 4.99' deep, in place complete.	
		Each	\$ \$

47.	2	basin, Type "D," 5.00' to 5.99' deep, in place complete.		
		Each	\$	\$
48.	2	Each, Standard shallow drain manhole for pavement area, 5.00' to 5.99' deep, in place complete.		
		Each	\$	\$
49.	1	Each, Standard shallow drain manhole for pavement area, 6.00' to 6.99' deep, in place complete.		
		Each	<u>\$</u>	\$
50.	1	Each, Special reinforced catch basin, Type "B," CB "E-5," in place complete.		
		Each	\$	\$
51.	1	Each, Special reinforced catch basin, Type "B," CB "E-9," in place complete.		
		Each	\$	\$
52.	1	Each, Special reinforced catch basin, Type "B," CB "B-2," in place complete.		
		Each	<u>\$</u>	\$
53.	1	Each, Special reinforced catch basin, Type "B," CB "F-1," in place complete.		
		Each	\$	\$
54.	1	Each, Special reinforced catch basin, Type "D," CB "D-1," in place complete.		
		Each	\$	\$
55.	1	Each, Special drain manhole for pavement area, DMH "E-4," in place complete.		
		Each	\$	\$
56.	1	Each, Special drain manhole for pavement area, DMH "E-6," in place complete.		
		Each	\$	\$
57.	1	Each, Special drain manhole for pavement area, DMH "E-7," in place complete.		
		•	\$	\$

58.	1	Each, Special drain manhole for pavement area, DMH "E-8," in place complete.		
		Each	\$	\$
59.	1	Each, Special drain manhole for pavement area, DMH "E-10," in place complete.		
		Each	\$	\$
60.	1	Each, Special drain manhole for pavement area, DMH "A-4," in place complete.		
		Each	<u>\$</u>	\$
61.	1	Each, Special drain manhole for pavement area, DMH "B-1," in place complete.		
		Each	\$	\$
62.	3	Each, Temporary field inlets "A-10", "D-2" and "F1-1", in place complete.		
		Each	\$	\$
63.	2	Each, Temporary field inlets "B-3" and "F2", in place complete.		
		Each	\$	\$
64.	1	Each, Connect 60" RCP to existing stub, in place complete.		
		Each	\$	\$
65.	3	Each, Plug end of 18" RCP, in place complete.		
		Each	\$	\$
66.	2	Each, Plug end of 24" RCP, in place complete.		
		Each	\$	\$
67.	1	Each, Plug end of 42" RCP, in place complete.		
		Each	\$	\$
68.	1	Each, Construct CRM outlet, including headwall, deflectors, 3' deep CRM cutoff wall along bottom and side edges, 2' deep CRM cutoff wall along top, grouted CRM lining at bottom, backfilling and excavation, in place complete.		
		Each	\$	\$
EASTKADOL	ELILDE	EVELODMENT	BID (	DEEEB EOBM

#### TOTAL - DRAINAGE SYSTEM

(Items 32 to 68, inclusive) SEWER SYSTEM 69. 996 Cu. Yds., Unclassified excavation for sewer lines, cradles and manholes, including backfill, in place complete. Per Cu. Yd. \$ 70. 39 Lin. Ft., Crushed rock cradle for 6" sewer pipe, in place complete. Per Lin. Ft. \$ 918 Lin. Ft., Crushed rock cradle for 8" 71. sewer pipe, in place complete. Per Lin. Ft. \$ Lin. Ft., Crushed rock cradle for 10" 72. 383 sewer pipe, in place complete. Per Lin. Ft. \$ Lin. Ft., 6" polyvinyl chloride sewer 73. 41 pipe, Class 150, DR=18, in place complete. Per Lin. Ft. \$ Lin. Ft., 8" polyvinyl chloride sewer 74. 928 pipe, Class 150, DR=18, in place complete. Per Lin. Ft. \$\_\_\_\_\_ \$ 75. Lin. Ft., 10" polyvinyl chloride sewer 393 pipe, Class 150, DR=18, in place complete. Per Lin. Ft. \$\_\_\_\_ \$ 76. 9 Lin. Ft., Reinforced concrete jacket for 8" PVC pipe, in place complete. Per Lin. Ft. \$ 77. 26 Lin. Ft., Reinforced concrete jacket for 10" PVC pipe, in place complete. Per Lin. Ft. \$ 78. 1 Each, Plain manhole (precast concrete), 9.00' to 9.99', including manhole frame, walls and base, in place complete. Each \$

79.	4	Each, Plain manhole (precast concrete), 10.00' to 10.99', including manhole frame, walls and base, in place complete.		
		Each	\$	\$
80.	1	Each, Advanced riser connection, including excavation and backfill, in place complete.		
		Each	\$	\$
81.	5	Each, 8" sewer pipe plug, in place complete.		
		Each	\$	\$
82.	4	Each, 10" sewer pipe plug, in place complete.		
		Each	\$	\$
83.	8	Each, 2" polyvinyl chloride marker, in place complete.		
		Each	\$	\$
		TOTAL – SEWER SYSTEM		
		(Items 69 to 83, inclusive)		<u>\$</u>
WATER S	<u>YSTEM</u>			
84.	1,328	Cu. Yds., Unclassified excavation for water mains, manholes and appurtenances, including backfill and pipe cushion, in place complete.		
		Per Cu. Yd.	\$	\$
		PVC Pipe and Fittings		
85.	707	Lin. Ft., 16" polyvinyl chloride pipe, Class 150, DR = 18, in place complete.		
		Per Lin. Ft.	<u>\$</u>	\$
86.	2,175	Lin. Ft., 12" polyvinyl chloride pipe, Class 150, DR = 18, in place complete.		
		Per Lin. Ft.	<u>\$</u>	\$
87.	472	Lin. Ft., 8" polyvinyl chloride pipe, Class 150, DR = 18, in place complete.		
		Per Lin. Ft.	\$	\$
88.	128	Lin. Ft., 6" polyvinyl chloride pipe, Class 150, DR = 18, in place complete.		
		Per Lin. Ft.	\$	\$
EAST KA	POLEI II DE	EVELOPMENT	BID	OFFER FORM

ADDENDUM NO.2

June 2012

ROAD "E" EXTENSION (IFB-12-HHL-004)

89.	11	Lin. Ft., 4" polyvinyl chloride pipe, Class 150, DR = 18, in place complete.	
		Per Lin. Ft.	\$ \$
90.	2	Each, 16" bevel gear gate valve, Class 150, FE, including ball corps, bypass valves and appurtenances, in place complete.	
		Each	\$ \$
91.	2	Each, 16" dismantling joint, FE, in place complete.	
		Each	\$ \$
92.	10	Each, 12" gate valve, Class 150, including anchor valve block, in place complete.	
		Each	\$ \$
93.	5	Each, 8" gate valve, Class 150, including anchor valve block, in place complete.	
		Each	\$ \$
94.	9	Each, 6" gate valve, Class 150, including anchor valve block, in place complete.	
		Each	\$ \$
95.	1	Each, 4" gate valve, Class 150, including anchor valve block, in place complete.	
		Each	\$ \$
96.	13,565	Lbs., Ductile iron pipe fittings, in place complete.	
		Per Lb.	\$ \$
		The above weight is approximate and is based on the fittings listed below:	
		1 – 12" sleeve, 12" long 110#	
		$3-8$ " boss tee tapped for $\frac{3}{4}$ " ball corp 285#	
		9 – 12" boss tee tapped for 3/4" ball corp 1485#	
		6 – 16" boss tee tapped for 3/4" ball corp 1410# 11 – 12" connector piece	
		5 – 16" connector piece	
		2 – 16"x6" tee1150#	
		1 – 16"x12" cross	
		1 – 12"x8" cross	
		1 – 12" cross	
		1 – 12"x4" tee	
		7 – 12"x8" tee	
		4 – 8" 1/8 bend	

٠		3 – 8" plug with 2-1/2" C.O	
97.	18	Each, ¾" air relief valve, 150# W.P. including appurtenances, in place complete.	
		Each	\$ \$
98.	18	Each, Air relief boxes, including frame and cover and concrete base, in place complete.	
		Each	\$ \$
99.	6	Each, 4" galvanized cleanout including appurtenances, in place complete.	
		Each	\$ \$
100.	5	Each, 2-1/2" brass cleanout including appurtenances, in place complete.	
		Each	\$ \$
101.	8	Each, Fire hydrant, 4.5' curb to invert, including concrete slab and blue reflective markers, in place complete.	*
		Each	\$ \$
102.	1	Each, Fire hydrant, 5.0' curb to invert, including concrete slab and blue reflective markers, in place complete.	
		Each	\$ \$
103.	2	Each, Type "A" manholes "modified," height = 7.0', in place complete.	
		Each	\$ \$
104.	4	Each, Capping collars, including BxFL ductile iron pipe adapters, in place complete.	
		Each	\$ \$
105.	36	Each, valve box including cast iron frame and cover, pipe sleeve and concrete anchor pad, in place complete.	
		Each	\$ \$

106.	30	Cu. Yds., Class "B" concrete including reinforcing steel wherever necessary to pipe bracing, reaction and test blocks, etc., in place complete.	
		Per Cu. Yd.	\$ \$
107.	68	Lin. Ft., Reinforced concrete jacket including 16" ductile iron pipe, fittings and appurtenances, in place complete.	
		Per Lin. Ft.	\$ \$
108.	248	Lin. Ft., Reinforced concrete jacket including 12" ductile iron pipe, fittings and appurtenances, in place complete.	
		Per Lin. Ft.	\$ \$
109.	94	Lin. Ft., Reinforced concrete jacket including 8" ductile iron pipe, fittings and appurtenances, in place complete.	
		Per Lin. Ft.	\$ \$
110.	1	Each, Concrete thrust beam with D.I. reverse bell pipe for 16" polyvinyl chloride pipe, in place complete.	
		Each	\$ \$
111.	2	Each, Concrete thrust beam with D.I. reverse bell pipe for 12" polyvinyl chloride pipe, in place complete.	
		Each	\$ \$
112.	2	Each, Concrete thrust beam with D.I. reverse bell pipe for 8" polyvinyl chloride pipe, in place complete.	
		Each	\$ \$
113.	L. S.	Electronic markers, including all necessary labor, materials and equipment, in place complete.	
	ŧ	Lump Sum	\$
114.	L. S.	12" connection to existing water main, including pressure testing and chlorination, in place complete.	
		Lump Sum	\$
		TOTAL – WATER SYSTEM	
		(Items 84 to 114, inclusive)	\$

#### IRRIGATION WATER SYSTEM 115. 277 Cu. Yds., Unclassified excavation for water main, laterals and appurtenances, including backfill and pipe cushion, in place complete. Per Cu. Yd. \$ \$ **PVC Pipe and Fittings** Lin. Ft., 8" polyvinyl chloride purple 116. 624 colored pipe, Class "150," DR = 18, in place complete. Per Lin. Ft. \$ 1 Each, 2-1/2" polyvinyl chloride service, 117. Type E, lateral connection to R1 W8 and all appurtenances, in place complete. Each 118. 1 Each, 8" gate valve, Class 150, including anchor valve block, in place complete. Each \$ 5 Each, 8" polyvinyl chloride purple 119. colored deflection coupling, Class "150," DR = 18, in place complete. Each \$ 120. 670 Lbs., Ductile iron fittings, in place complete. Per Lb. The above weight is approximate and is based on the fittings listed below: 5-8" boss tee tapped for $\frac{3}{4}$ " ball corp....... 475# 1-8" boss tee tapped for 2-1/2" ball corp ..... 95# 2 – 8" plug with 2-1/2" C.O. ................................ 100# Each, 3/4" ARV, 150# W.P., including 121. 5 appurtenances, in place complete. Each Each, ARV box, including frame and 122. 5 cover and concrete base, in place complete. Each \$

EAST KAPOLEI II DEVELOPMENT ROAD "E" EXTENSION ADDENDUM NO.2 (IFB-12-HHL-004)

2

Each, 2-1/2" cleanout including appurtenances, in place complete.

15

Each \$

123.

**BID OFFER FORM** June 2012

124.	1	Each, Type III meter box, including cast iron frame and cover for "recycled water," in place complete.	
		Each	\$ \$
125.	3	Each, valve box including cast iron frame and cover for "recycled water", pipe sleeve and concrete anchor pad, in place complete.	
		Each	\$ \$
126.	1	Cu. Yd., Class "B" concrete including reinforcing steel wherever necessary for pipe bracing, reaction and test blocks, etc., in place complete.	
		Per Cu. Yd.	\$ \$
127.	160	Lin. Ft., Reinforced concrete jacket, including 8" DIP, Class 52, fittings and appurtenances, in place complete.	
		Per Lin. Ft.	\$ \$
128.	L. S.	Electronic markers, including all necessary labor, material and equipment, in place complete.	
		Each	\$ \$
		TOTAL – IRRIGATION WATER SYSTEM	
		(Items 115 to 128, inclusive)	\$
LANDSC	APE IMPROVE	<u>EMENTS</u>	
129.	54	Each, Installation of 25 gallon rainbow shower tree (3" min. caliper, 10' height), in place complete.	
		Each	\$ \$
130.	169	Each, Installation of 3 gallon Hibiscus Hula Girl (18" o.c.), in place complete.	
		Each	\$ \$
131.	46,306	Sq. Ft., Installation of common Bermuda grass (hydro seed), in place complete.	
		Per Sq. Ft.	\$ \$
132.	1,296	Lin. Ft., Installation of root barrier (24" depth), in place complete.	
		Per Lin. Ft.	\$ \$

133.	46,539	Sq. Ft., Installation of soil amendments, 2" overall depth, in place complete.		
		Per Sq. Ft.	\$	\$
134.	575.72	Cu. Yds., Installation of 4" layer imported screened soil under all planting areas, in place complete.		
		Per Cu. Yd.	\$	\$
135.	2.02	Cu. Yds., Installation of black cinder over filter fabric, 2" overall depth, in place complete.		
		Per Cu. Yd.	\$	\$
136.	121	Lin. Ft., Installation of plastic header, in place complete.		
		Per Lin. Ft.	\$	\$
137.	3	Months, Formal landscape maintenance period, in place complete.		
		Per Month	\$	\$
		TOTAL – LANDSCAPE IMPROVEMENTS		
		(Items 129 to 137, inclusive)		\$
The prices that to be so the following practices of	upplied by the ng items in pla Hawaiian Ele	the following items shall include all labor, to utility companies, appurtenances and incider ce and complete in accordance with the draw ctric Co. (HECO), Sandwich Isles Communium of Design and Construction, and to the	ntals necessary to it rings and specifica cations, Inc. (SIC)	nstall or to construct tions and standard , the City and
County of 1	-	-	ie sansiaction of th	ic Diffile.
138.	1,400	Lin. Ft., Furnish and Install Two 2-Inch Concrete Encased HECO Conduits.  Work shall consist of excavation and providing 2" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
139.	1,500	Lin. Ft., Furnish and Install Three 2-Inch Concrete Encased HECO Conduits. Work shall consist of excavation and providing 2" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
EASTKA	POLEI II DE	VELOPMENT	BID	FFER FORM

140.	950	Lin. Ft., Furnish and Install Four 2-Inch Concrete Encased HECO Conduits.  Work shall consist of excavation and providing 2" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
141.	30	Lin. Ft., Furnish and Install Six 2-Inch Concrete Encased HECO Conduits. Work shall consist of excavation and providing 2" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
142.	50	Lin. Ft., Furnish and Install One 3-Inch Concrete Encased HECO Conduit. Work shall consist of excavation and providing 3" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
143.	10	Lin. Ft., Furnish and Install Two 4-Inch Direct Buried HECO Conduits. Work shall consist of excavation and providing 4" diameter conduits, with spacers, couplings and appurtenances, backfilled per HECO requirements, complete and in place.		
		Dor Lin Et	¢	•

144.	1,300	Lin. Ft., Furnish and Install Two 4-Inch Concrete Encased HECO Conduits. Work shall consist of excavation and providing 4" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
145.	1,000	Lin. Ft., Furnish and Install Two 5-Inch Concrete Encased HECO Conduits. Work shall consist of excavation and providing 5" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
146.	2,100	Lin. Ft., Furnish and Install Four 5-Inch Concrete Encased HECO Conduits. Work shall consist of excavation and providing 5" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
147.	360	Lin. Ft., Furnish and Install Six 5-Inch Concrete Encased HECO Conduits. Work shall consist of excavation and providing 5" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.	·	
		Per Lin. Ft.	\$	\$
148.	650	Lin. Ft., Furnish and Install Eight 5-Inch Concrete Encased HECO Conduits. Work shall consist of excavation and providing 5" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
149.	500	Lin. Ft., Furnish and Install One 1-1/4" Direct Buried Street Light PVC Schedule 80 Type Conduit. Work shall consist of excavation and providing 1-1/4" diameter conduit, with spacers, couplings and appurtenances, backfilled as required, complete and in place.		
		Per Lin. Ft.	\$	\$

150.	250	Lin. Ft., Furnish and Install One 1½" Concrete Encased Street Light PVC Schedule 40 Type Conduit. Work shall consist of excavation and providing 1½" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place.	
		Per Lin. Ft.	\$ <u>\$</u>
151.	450	Lin. Ft., Furnish and Install One 2" Concrete Encased Street Light PVC Schedule 40 Type Conduit. Work shall consist of excavation and providing 2" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place	
		Per Lin. Ft.	\$ \$
152.	1,700	Lin. Ft., Furnish and Install Two 2" Concrete Encased Street Light PVC Schedule 40 Type Conduits. Work shall consist of excavation and providing 2" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place.	
		Per Lin. Ft.	\$ \$
153.	1,600	Lin. Ft., Furnish and Install Three 2" Concrete Encased Street Light PVC Schedule 40 Type Conduits. Work shall consist of excavation and providing 2" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place.	
		Per Lin. Ft.	\$ \$
154.	50	Lin. Ft., Furnish and Install 3" Concrete Encased Street Light PVC Schedule 40 Type Conduit. Work shall consist of excavation and providing 3" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place.	
		Per Lin. Ft.	\$ \$

155.	500	Lin. Ft., Furnish and Install One 2" Concrete Encased Traffic Signal PVC Schedule 40 Type Conduit. Work shall consist of excavation and providing 2" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place.	
		Per Lin. Ft.	\$ \$
156.	3,000	Lin. Ft., Furnish and Install Two 2" Concrete Encased Traffic Signal PVC Schedule 40 Type Conduits. Work shall consist of excavation and providing 2" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place.	
		Per Lin. Ft.	\$ \$
157.	50	Lin. Ft., Furnish and Install Five 2" Concrete Encased Traffic Signal PVC Schedule 40 Type Conduits. Work shall consist of excavation and providing 2" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place.	
		Per Lin. Ft.	\$ \$
158.	1,200	Lin. Ft., Furnish and Install Six 2" Concrete Encased Traffic Signal PVC Schedule 40 Type Conduits. Work shall consist of excavation and providing 2" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place.	
		Per Lin. Ft.	\$ \$
159.	50	Lin. Ft., Furnish and Install Two 3" Concrete Encased Traffic Signal PVC Schedule 40 Type Conduits. Work shall consist of excavation and providing 3" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled as required, complete and in place.	
		Per Lin. Ft.	\$ \$

160.	1	Concrete Pullbox with precast concrete covers, provided in accordance with HECO standard drawing No. 30-2005, complete and in place.	
		Each	\$ \$
161.	8	Each, Furnish and Install 6' x 11' Reinforced Concrete Manhole with traffic rated frame and cover, provided in accordance with HECO standard drawing No. 100726, complete and in place.	
		Each	\$ \$
162.	2	Each, Furnish and Install 6' x 14' Reinforced Concrete Manhole with traffic rated frame and cover, provided in accordance with HECO standard drawing No. 100912, complete and in place.	
		Each	\$ \$
163.	35	Each, Furnish and Install 2' x 4' Precast Concrete Pullbox (City - Street Light) with Armorcast polymer concrete covers, provided in accordance with the City and County of Honolulu Mechanical/ Electrical Division Type "SLD-4" Standard, complete and in place.	
		Each	\$ \$
164.	5	Each, Furnish and Install Type "A" Precast Concrete Pullbox (City - Traffic Signal) with polymer concrete cover, provided in accordance with the City and County of Honolulu Dept. of Transportation Services Type "A" Standard Drawing, complete and in place.	
		Each	\$ \$
165.	11	Each, Furnish and Install Type "B" Precast Concrete Pullbox (City - Traffic Signal) with polymer concrete covers, provided in accordance with the City and County of Honolulu Dept. of Transportation Services Type "B" Standard Drawing, complete and in place.	
		Each	\$ \$

166.	27	Each, Furnish and Install Type "C" Precast Concrete Pullbox (City - Traffic Signal) with polymer concrete covers, provided in accordance with the City and County of Honolulu Dept. of Transportation Services Type "C" Standard Drawing, complete and in place.	
		Each	\$ \$
167.	1	Each, 6' x 7' Transformer Pad Lot. Work shall consist of reinforced concrete transformer pad and ground rod, provided as indicated on the drawings and in accordance with HECO standard drawing No. 30-5001 and 011249, complete and in place.	
		Each	\$ \$
168.	2	Each, 10' x 14' Switching Equipment Pad Lot. Work shall consist of reinforced concrete pad and ground rod, provided as indicated on the drawings and in accordance with HECO standard drawing No. 30-5040, complete and in place.	
		Each	\$ \$
169.	1	Each, Furnish and Install Street Light System Metering Equipment and Cabinet with concrete encased service conduits, reinforced concrete pad, ground rod, metering equipment, load center, wiring, receptacle, stainless steel enclosure, and accessories, provided as indicated on the drawings, complete and in place.	
		Each	\$ \$
170.	5	Each, Furnish and Install Street Lighting Standard (100W), Type II. Work shall consist of excavating, constructing reinforced concrete foundation, backfilling, and providing street lighting standard, luminaire and bracket arm in accordance with the City and County of Honolulu Mechanical/Electrical Division Standard and as indicated on the drawings, complete and in place.	
		Each	\$ \$

171.	31	Each, Furnish and Install Street Lighting Standard (150W), Type III. Work shall consist of excavating, constructing reinforced concrete foundation, backfilling, and providing street lighting standard, transformer base, luminaire and bracket arm in accordance with the City and County of Honolulu Mechanical/ Electrical Division Standards and as indicated on the drawings, complete and in place.		
		Each	\$	\$
172.	6,000	Lin. Ft., Street Lighting Circuit(s) (Multiple System). Work shall consist of providing cables and accessories from street lighting standards to nearest HECO secondary cables, complete and in place.		·
		Per Lin. Ft.	\$	\$
		TOTAL – EXTERIOR ELECTRICAL WORK		
		(Items 138 to 172, inclusive)		\$
PART 2 - SAN	DWICH IS	LES COMMUNICATIONS, INC. (SIC) W	ORK	
be supplied by S and complete in	SIC, appurte accordance	e following items shall include all labor, tools nances and incidentals necessary to install or with the drawings and specifications and star ment of Design and Construction, and to the s	to construct the follondard practices of SIC	wing items in place C, the City and
173.	1,270	Lin. Ft., Furnish and Install Two 4-Inch Direct Buried SIC Conduits - UD(2X1-4"). Work shall consist of excavation and providing 4" diameter conduits, with spacers, couplings, and appurtenances, backfilled per SIC requirements, complete and in place.	O.	· ·
		Per Lin. Ft.	\$	\$

174.	270	Lin. Ft., Furnish and Install Two 4-Inch Concrete Encased SIC Conduits - UD(2X1-4")E. Work shall consist of excavation and providing 4" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per SIC requirements, complete and in place.		
		Per Lin. Ft.	\$	\$
175.	78	Lin. Ft., Furnish and Install Four 4-Inch Concrete Encased SIC Conduits - UD(2X2-4")E. Work shall consist of excavation and providing 4" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per SIC requirements, complete and in place.		
		Per Lin. Ft.	<u>\$</u>	\$
176.	2	Each, Furnish and Install 3'x 5' Type UH- 35 Reinforced Concrete Handhole, with traffic rated frame and covers, and cable racks, provided in accordance with SIC standard requirements, complete and in place.		
		Each	\$	\$
177.	2	Each, Furnish and Install Housing Ground Assembly Unit BM 2(5/8)(8), with copper clad ground rod, ground rod clamp and the required length of bare #6 AWG tinned copper ground wire connected to an auxiliary grounding connector within the housing, provided in accordance with SIC standard requirements, complete and in place.		
		Each	\$	\$
178.	1	Each, Rearrangement of Existing Conduit(s) - W-UD. Provide labor and materials necessary to locate, expose and connect existing conduits to new conduits, complete and in place. All miscellaneous items and labor such as conduit sweeps, joints, etc. to make the conduit whole from manhole to manhole shall be included in this unit. All testing, rodding and cleaning of existing conduits per SIC specifications.		
		Each	\$	Φ

# TOTAL – PART 2 SANDWICH ISLES COMMUNICATIONS, INC. (SIC) WORK

(	Items	173	to	178.	incl	usive	)
٦	1001110	1 / 0	·	1,0,	1110		3

#### **RECAPITULATION**

PART 1 – DHHL Work	
ROAD CONSTRUCTION (Items 1 to 31, inclusive)	\$
DRAINAGE SYSTEM (Items 32 to 68, inclusive)	\$
SEWER SYSTEM (Items 69 to 83, inclusive)	<u>\$</u>
WATER SYSTEM (Items 84 to 114, inclusive)	\$
IRRIGATION WATER SYSTEM (Items 115 to 128, inclusive)	\$
LANDSCAPE IMPROVEMENTS (Items 129 to 137, inclusive)	\$
EXTERIOR ELECTRICAL WORK (Items 138 to 172, inclusive)	\$
PART 2 – SANDWICH ISLES COMMUNICATIONS, INC. (SIC) WORK (Items 173 to 178, inclusive)	\$
TOTAL SUM BID (Part 1 + Part 2) =	- A - A- A
Dolla	ars (\$).

The prices herein for the above items shall include all materials, labor, tools, equipment, machinery and all incidentals necessary to install or to construct these items in place complete and in accordance with the plans and specifications contained in this IFB. Prices are exclusive of general excise tax (GET) for Part I (DHHL work), and inclusive of GET for Part II (SIC work).

#### HAWAII PRODUCTS PREFERENCE

Section 103D-1002, Hawaii Revised Statutes (HRS), as amended by Act 175 (Session Laws of Hawaii 2009), provides preference for Hawaii products. The previous Hawaii products list established pursuant to HRS §103D-1002 was suspended effective July 1, 2009, and a new list has been published by the State Procurement Office (SPO). DHHL will be supplementing the list with additional approved products for this solicitation.

Pursuant to HRS §103D-1002(b) (2) and Procurement Circular No. 2009-13, bidders intending to use Hawaii products should distribute the attached SPO-38, *Certification for Hawaii Product Preference*, to each of the manufacturers and producers of such products which bidders intend to use if the manufacturers and producers and their products are not listed on the SPO Hawaii Products List or in the DHHL's list below. The manufacturers and producers must complete and submit SPO-38 to DHHL. The form must be received by DHHL no later than 2:00 p.m., \_\_\_\_\_\_\_\_, 2012. Submittal by facsimile (808 620-9299) is acceptable. If DHHL receives and approves SPO-38s relating to this solicitation DHHL will issue an addendum listing the additional certified and qualified Hawaii products by 4:00 p.m., \_\_\_\_\_\_\_\_, 2012.

Bidders may claim a Hawaii product preference for products that it manufactures or produces with its own workforce and equipment. The SPO-38, *Certification for Hawaii Product Preference*, must be submitted in accordance with the procedures described above in order for Bidder to claim a Hawaii product preference for such Hawaii products Bidder intends to use in this work.

A partial list of approved products is provided below. The complete current list as compiled by the State Procurement Office is available at:

http://www4.hawaii.gov/spoh/HiProducts/hiProducts.htm

# Preferences, Hawaii Products CONSTRUCTION PRODUCTS AND SOIL AMENDMENTS/PRODUCTS

Aggregate	s – Basalt	tic Termit	e Barrier				
Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
	11/03/09		Ameron International Corporation	X	X		
Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
	11/03/09		Ameron International Corporation	X	X		
	10/23/09		CTS Earthmoving, Inc.			X	
	11/03/09	1/20/10	Delta Construction Corporation	X			
	12/14/09		Edwin Deluz Trucking & Gravel LLC			х	

BID OFFER FORM

01/28/10		Goodfellow Bros., Inc.	X			
11/02/09		Grace Pacific	X		Х	Х
4/26/11		GW Construction			Х	
11/03/09		Hawaiian Cement	X	X		
12/15/09		Jas. W. Glover, Ltd.			Х	Х
06/30/10		Kauai Aggregates				Х
10/20/09	07/22/10	Sanford's Service Center, Inc.			X	
11/05/09		Tileco, Inc.	X	X	X	X
11/03/09		West Hawaii Concrete			X	
11/02/09		Yamada and Sons, Inc.			X	

# Aggregates - Recycled Asphalt and Concrete

Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
	12/15/09		Glover Honsador				X
	11/02/09		Grace Pacific	X			
	12/15/09		Jas. W. Glover, Ltd.	X		X	
	10/18/10		West Oahu Aggregate Co. Inc.	X			

# Asphalt and Paving Materials - HI Products

Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
	06/15/10		Black Maui Rose LLC		X		
	12/22/09		Black Plumeria LLC	X			
	10/21/09	11/02/09	Grace Pacific Corporation	Х		X	X
	12/05/09		Jas. W. Glover, Ltd.			X	X
	11/03/11		Maui Asphalt X-IV, LLC		X		
	10/28/09		Maui Paving LLC		X		
	11/20/09		Walker-Moody Pavement Products and Equipment	Х	Х	X	Х
	11/22/09		Yamada and Sons, Inc. dba YS Rock and Con-Agg of Hawaii			X	

### **Cement and Concrete Products**

Product Subcategory as applicable	Effective Date	Last Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kauai
	11/03/09		Ameron International Corporation	X			
	01/19/10		BOMAT, Ltd.	Х	Х	X	X
	12/15/09		Glover Honsador				X
	11/03/09		Hawaiian Cement	Х	Х		
	12/15/09		Jas. W. Glover, Ltd.			Х	X
	12/15/09		Kohala Coast Concrete & Precast			Х	

EAST KAPOLEI II DEVELOPMENT ROAD "E" EXTENSION ADDENDUM NO.2 BID OFFER FORM June 2012

Product Subcategory	Effective Date	Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kauai
Precast Co	ncrete Pr	oducts					
	11/03/09		West Hawaii Concrete			Х	
	11/05/09		Tileco, Inc.	X	X	Х	X
	06/30/10		O. Thronas, Inc.				Х
			LLC				

Product Subcategory as applicable	Effective Date	Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kauai
	7/12/10		Aloha Precast, Inc.	X	X	X	X
	11/03/09	04/15/10	Ameron International Corporation	X			
	08/02/10		GPRM Prestress, LLC	X	X	X	X
	11/03/09		Hawaii Concrete Products, Inc.	X			
	12/15/09		Kohala Coast Concrete & Precast LLC			X	
	11/03/09		Ramtek Fabrication Co., Inc.	X	X	X	X
	06/30/10	02/26/10	Walker Industries, Ltd.	Х	Х	Х	Х

# **Environmental Sewage-Treatment Innovative System (ESIS) Individual** Wastewater System which utilizes anaerobic/aerobic processing to treat wastewater to R-2 quality at discharge

Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
	11/20/09		Environmental Waste  Management Systems, Inc.	Х	X	X	Х
Septic Tanks	11/03/09		Ameron International Corporation	X			
3	11/05/09	02/26/10	Walker Industries, Ltd.	Х	Х	Х	Х

# **Hot Dip Galvanizing**

Product Subcategory as applicable	Effective Date	Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kauai
	03/03/10		Universal Associates, Inc.	X			

# Pipes-Aluminum and Galvanized

Product Subcategory as applicable	Effective Date	Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kauai
Pipes- Miscellaneo us	11/03/09		Ameron International Corporation	Х			

# Aluminum Docks, Floating, etc. - Miscellaneous

Subcategory Effective Revised Manufacturer Oahu Maui Hawaii Kauai
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as applicable	T		T	I		T	
us uppreusie	05/25/10	06/14/10	Bluewater Marine and Dock Specialties	х	Х	х	X
Playgroun	d Surface	S					
Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
аз арричиот	01/07/10		Innovative Playgrounds and Recreation, Inc.	х	х	х	Х
Signs - Tra	ıffic, Regu	ılatory an	d Construction				
Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
us applicable	12/14/09		GP Roadway Solutions, Inc.	X	X	X	Х
	11/20/09		Safety Systems Hawaii, Inc.	X	Х	Х	X
Product Subcategory	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
as applicable	11/14/11		Big Rock Manufacturing	x	х	x	x
Product Subcategory	Effective	Revised	mpost Manufacturer	Oahu	Maui	Hawaii	Kauai
as applicable	10/16/09		Kauai Nursery & Landscaping, Inc.	X	х	X	Х
	10/20/09		Sanford's Service Center, Inc.			X	
Compost F	ilter						
Product Subcategory as applicable	Effective Date	Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kauai
	01/25/10		EnviroTech BioSolutions Hawaii, Inc.	Х	Х	Х	Х
			Certified Erosion Control Hawaii				

DESIGNATION (	DESIGNATION OF HAWAII PRODUCTS TO BE USED					
		Cost FOB Jobsite, Unloaded				
		Including Applicable General				
Description	Manufacturer	Excise and Use Taxes				
		\$				
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(Add additional sheets if necessary)

The Bidder agrees that preference for Hawaii products shall be taken into consideration to determine the low Bidder in accordance with said sections and the rules promulgated; however, the award of contract will be in the amount of the bid offered exclusive of any preferences.

It is further understood by the Bidder that if upon being granted Hawaii Products, and being awarded the contract, if the Bidder fails to use such products or meet the requirements of such preference, the Bidder shall be subject to penalties, if applicable.

#### APPRENTICESHIP AGREEMENT PREFERENCE

Hawaii Revised Statutes §103-55.6 (ACT 17, SLH 2009) provides for a Hawai'i Apprenticeship Preference for public works contracts having an estimated value of \$250,000.00 or more. The preference shall be in the form of a 5% bid adjustment applied to the bidder's amount for bidders that are parties to apprenticeship agreements. The estimated value of this public works contract is \$250,000 or more and the apprenticeship agreement preference **shall** apply.

To be eligible for the preference, the bidder shall:

- 1. Be a party to an apprenticeship agreement registered with the DLIR at the time the bid is made for each apprenticeable trade the bidder will employ to construct the public works project for which the bid is being made.
  - a. The apprenticeship agreement shall be registered and conform to the requirements of HRS Chapter 372.
  - b. Subcontractors do not have to be a party to an apprenticeship agreement for the bidder to obtain the preference.
  - c. The bidder is not required to have apprentices in its employ at the time the bid is submitted to qualify for the preference.
- 2. For each trade to be employed to perform the work, the bidder shall submit a completed signed original CERTIFICATION OF BIDDER'S PARTICIPATION IN APPROVED APPRENTICESHIP PROGRAM UNDER ACT 17 (Certification Form 1) verifying the participation in an apprenticeship program registered with the State Department of Labor and Industrial Relations (DLIR);
- 3. The Certification Form 1 shall be authorized by an apprenticeship sponsor of the DLIR list of registered apprenticeship programs. The authorization shall be an original signature by an authorized official of the apprenticeship sponsor; and
- 4. The completed Certification Form 1 for each trade must be submitted by the bidder with the offer. A facsimile or copy is acceptable to be submitted with the offer; however, the completed signed original must be submitted within five (5) working days of the due date of the offer. If the signed original is not received within this timeframe, the preference may be denied. Previous certifications shall not apply.

Failure to comply with ALL of the conditions noted above, without exception, shall disqualify the Bidder from qualifying for, and thus receiving, benefit of the Hawai'i Apprenticeship Preference.

The Certification Form 1 and the List of Construction Trades in Registered Apprenticeship Programs is available on the DLIR website at: http://hawaii.gov/labor/wdd

Upon receiving *Certification Form 1*, the DHHL will verify with DLIR that the apprenticeship program is on the list of apprenticeship programs registered with the DLIR. If the program(s) are not confirmed by the DLIR, the bidder will not qualify for the preference.

If the bidder is certified to participate in an apprenticeship program for each trade which will be employed by the bidder for the project, a preference will be applied to decrease the bidder's total bid amount by five per cent (5%) for evaluation purposes.

Should the bidder qualify for other preferences (for example, Hawaii Products Preference), all applicable preferences shall be applied to the bid amount.

While preference for Hawai'i Apprenticeship will be taken into consideration to determine the low bidder, the contract awarded shall be the original bid amount, exclusive of any preferences. The preference is only for evaluation purposes.

## ALL JOINT CONTRACTORS OR SUBCONTRACTORS TO BE ENGAGED ON THIS PROJECT

The Bidder certifies that the following is a complete listing of all joint Contractors or Subcontractors covered under Chapter 444, Hawaii Revised Statutes, who will be engaged by the Bidder on this project to perform the nature and scope of work indicated pursuant to Section 103D-302, Hawaii Revised Statutes, and understands that failure to comply with this requirement shall be just cause for rejection of the bid.

The Bidder further understands that only those joint Contractors or Subcontractors listed shall be allowed to perform work on this project and that all other work necessary shall be performed by the Bidder with his own employees. If no joint Contractor or Subcontractor is listed, it shall be construed that all of the work shall be performed by the Bidder with his own employees.

The Bidders must be sure that they possess and that the Subcontractors listed in the bid possess all the necessary licenses needed to perform the work for this project. The bidder shall be solely responsible for assuring that all the specialty licenses required to perform the work are covered in his bid.

The Bidder shall include the license number of the joint Contractors or Subcontractors listed below. Failure to provide the correct names and license numbers as registered with the Contractor's Licensing Board may cause rejection of the bid submitted.

Complete Firm Name of Joint Contractor or Subcontractor for Total Sum Bid	License Number	Nature and Scope of Work to be Performed

(Add additional sheets if necessary)

#### METHOD OF AWARD

Bidder is required to bid on entire project, including Part 2, the Sandwich Isles Communications, Inc. (SIC) portion of the work. The award of contract will be made on the basis of the lowest responsible and responsive bid for the total of Part 1 and Part 2. The low bidder shall be determined by the procedures outlined in items 1) through 4) below:

- 1) Prior to opening of bids, the State will determine the amount of funds available for the project. This amount will be designated the "control amount". The control amount shall be announced at, and prior to the opening of bids.
- 2) The Base Bid and Alternate, if any, of each Bidder will be adjusted to reflect the applicable preferences in accordance with Chapter 103D, HRS. The Alternate, if any, will then be added to the Base Bid and compared with the control amount.
- 3) The low bidder shall be the Bidder having the lowest aggregate amount, within the control amount (after application of the various preferences), for the Base Bid plus the Alternate, if any.
- 4) If adding the Alternate, if any, would make the aggregate amount exceed the control amount for all Bidders, the low bidder shall be the Bidder having the lowest Base Bid after application of the various preferences.

It is further understood and agreed that:

- 1) The Chairman reserves the right to reject any and/or all bids and waive any defects when, in his opinion, such rejection or waiver will be in the best interest of the State.
- 2) After determining the low bidder, an award may be made either on the amount of the Base Bid alone, or including the Alternate (exclusive of preferences), if:
  - a. It is in the best interest of the State:
  - b. Funds are available at time of the award; and
  - c. The combination of the Base Bid plus Alternate does not change the apparent low bidder.
- 3) In the event the Base Bid for all Bidders exceed the control amount, the Chairman reserves the right to negotiate with the lowest responsible and responsive bidder to award a contract within available funds.
- 4) In the event the award is made for the Base Bid alone, the Chairman reserves the right to amend the contract at a later date to include the Alternate should funds subsequently become available.

#### OTHER CONDITIONS

- 1) The liquidated damages per working day for failure to complete the work on time have been determined and are noted in the Special Conditions.
- 2) By submitting this bid, the undersigned is declaring that his firm has not been assisted or represented on this matter by an individual who has, in a State capacity, been involved in the subject matter of this contract in the past one (1) year.
- 3) By submitting this bid, the undersigned is declaring that Bidder's own organization will perform at least 20% of the total contract work.
- 4) Upon the acceptance of the bid by the Chairman, the undersigned must enter into and execute a contract for the same and furnish a Performance and Payment Bond, as required by law. These bonds shall conform to the provisions of Sections 103D-324 and 325, Hawaii Revised Statutes, and any law applicable thereto.
- 5) The quantities given herewith are approximate only and are subject to increase or decrease.
- 6) The estimated quantities shown for items for which a UNIT PRICE is asked in this bid are only for the purpose of comparing on a uniform basis bids offered for the work under this contract. No claim shall be filed for anticipated profit or loss because of any difference between the quantities of the various classes of work done or the materials and equipment actually installed and the said estimated quantities. Payment on UNIT PRICE items will be made only for the actual number of units incorporated into the finished project at the contract UNIT PRICE.
- 7) If the product of the UNIT PRICE BID and the number of units does not equal the total amount stated by the undersigned in the Bid for any item, it will be assumed that the error was made in computing the total amount. For the purpose of determining the lowest Bidder, the stated UNIT PRICE alone will be considered as representing the Bidder's intention and the total amount bid on such items shall be considered to be the amount arrived at by multiplying the UNIT PRICE by the number of units.
- 8) Certification for Safety and Health Programs for Bids in Excess of \$100,000. accordance with Sections 103D-327 and 396-18, Hawaii Revised Statutes, by submitting this bid, the undersigned certifies that his firm will have a written Safety and Health Plan for this project that will be available and implemented by the Notice to Proceed date of this project. Details of the requirements of this plan may be obtained from the Department of Labor and Industrial Relations, Occupational, Safety and Health Division.
- 9) Anti-Collusion Certification. By submitting this bid, the undersigned is declaring that the price submitted is independently arrived at without collusion.
- 10) Any contract arising out of this offer is subject to the approval of the Department of the Attorney General as to form, and to all further approvals, including the approval of the Governor, required by statute, regulation, rule, order, or other directive.

11) Compliance with Hawaii Revised Statutes (HRS) Chapter 103B as amended by Act 192, SLH 2011 - Employment of State Residents on Construction Procurement Contracts. -See Special Conditions #17 (SC-17) – Attachment – S5 AG-015 for provisions.

Receipt of the following addenda issued by the Department is acknowledged by the date(s) of receipt indicated below:

Date	Date				
Addendum No. 1	Addendum No. 5				
Addendum No. 2	Addendum No. 6				
Addendum No. 3	Addendum No. 7				
Addendum No. 4	Addendum No. 8				
It is understood that failure to re from any obligation under this IFB as su	ceive any such addendum shall not relieve the Contractor abmitted.				
Bid Security in the amount of:					
	DOLLARS (\$)				
as required by law, is enclosed herewith	in the form of:				
() Surety Bond (*1) () Legal Tender (*2) () Cashier's Check (*3) () Certificate of Deposit (*3) () Certified Check (*3)	() Official Check (*3) () Share Certificate (*3) () Teller's Check (*3) () Treasurer's Check (*3)  Respectfully submitted,				
	Name of Company, Joint Venture or Partnership				
	License No.				
	BySignature (*4)				
	Title:				
	Date:				
	Address:				

Telephone	No.:

(IF A CORPORATION, AFFIX CORPORATE SEAL TO SIGNATURE, BE SURE TO FILL IN ATTACHED LIST OF SUBCONTRACTORS. THIS BID FORM MAY NOT BE ALTERED AND BIDDERS MAY NOT QUALIFY OR CONDITION THEIR BIDS IN ANY WAY.)

PLEASE FILL OUT THE ATTACHED CERTIFICATE OF RESOLUTION GIVING EVIDENCE OF THE AUTHORITY OF THIS OFFICER TO SUBMIT BIDS ON BEHALF OF THE COMPANY.

#### NOTES:

- \*1. Surety bond underwritten by a company licensed to issue bonds in this State;
- \*2. Legal tender; or
- \*3. A certificate of deposit; share certificate; or cashier's, treasurer's, teller's, or official check accepted by, and payable on demand to the State by a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation of the National Credit Union Administration.
  - These instruments may be utilized only to a maximum of \$100,000. A.
  - If the required security or bond amount totals over \$100,000, more than one B. instrument not exceeding \$100,000 each and issued by different financial institutions shall be accepted.
- Please attach to this page evidence of the authority of this officer to submit bids on behalf \*4. of the Company, and also the names and residence addresses of all officers of the Company.
- Fill in all blank spaces with information asked for or bid may be invalidated. BID MUST **\***5. BE INTACT: MISSING PAGES MAY INVALIDATE YOUR BID.

#### CERTIFICATE OF RESOLUTION

	I,			, Secreta	ary	of				, a
	I,i Corporation, d									
resolut	tion duly adopted	by the	e Boar	d of Directors of	f sa	id Co	rporatio	on, at its n	neeting	duly called and
held at	t the office of the	e Corp	oratio	n				, Hawa	ii, on	day of
said re	solution has not b	oeen m	odifie	ed, amended or i	esci	nded	and co	ntinues in	full to	rce and effect.
	"RESOLVED	that								position(s) of s, authorized to
	the products of the execute any box	the Co nd rec the St	rporat ¡uired ate of	ion or for the se by any such b Hawaii or the	rvic id, j City	es to propo and	be perfesal or County	ormed by contract v	the Co with th lulu, o	sale or rental of orporation and to be United States or any County of y of them."
	IN WITNESS	THER	EOF,	I have hereunte	se se	t my	hand a	nd affixed	the c	corporate seal of
said				this		day	of			, 20
	Secretar	y	<del></del>							

END OF BID

#### <u>SECTION 02731 – SANITARY SEWER SYSTEM</u>

#### PART 1 – GENERAL

- 1.01 <u>GENERAL CONDITIONS</u>: The General Conditions and Special Provisions preceding these specifications shall govern this section of the work.
- 1.02 <u>WORK INCLUDED</u>: Furnish all labor, materials, tools, equipment and related items necessary to complete, in place, the sewer system in conformity with the dimensions, profiles, sections, and details shown on the plans. Work relating to the sewer system shall be governed by the following sections of the DPW Standard Specifications:

PVC Sewer Pipe and Appurtenances	Section 21
Connection to Existing Sewer and Connecting Cesspool in	
Direct Line of Sewer	Section 22
Sewer Manholes	Section 23
Portland Cement Concrete	
Concrete Blocks, Cradles and Concrete Jackets	Section 43
Reinforcing Steel	Section 48

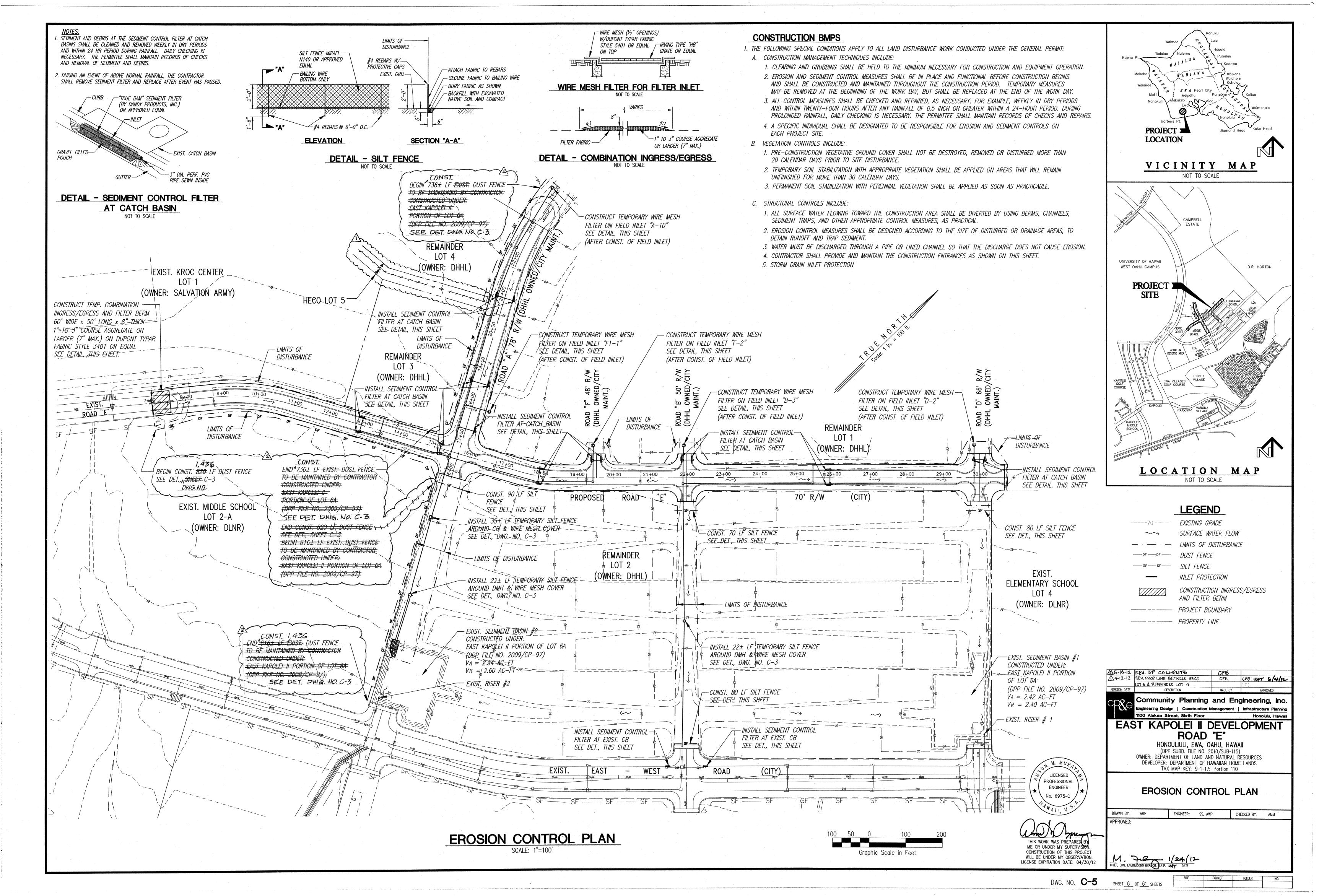
#### PART 2 – PRODUCTS

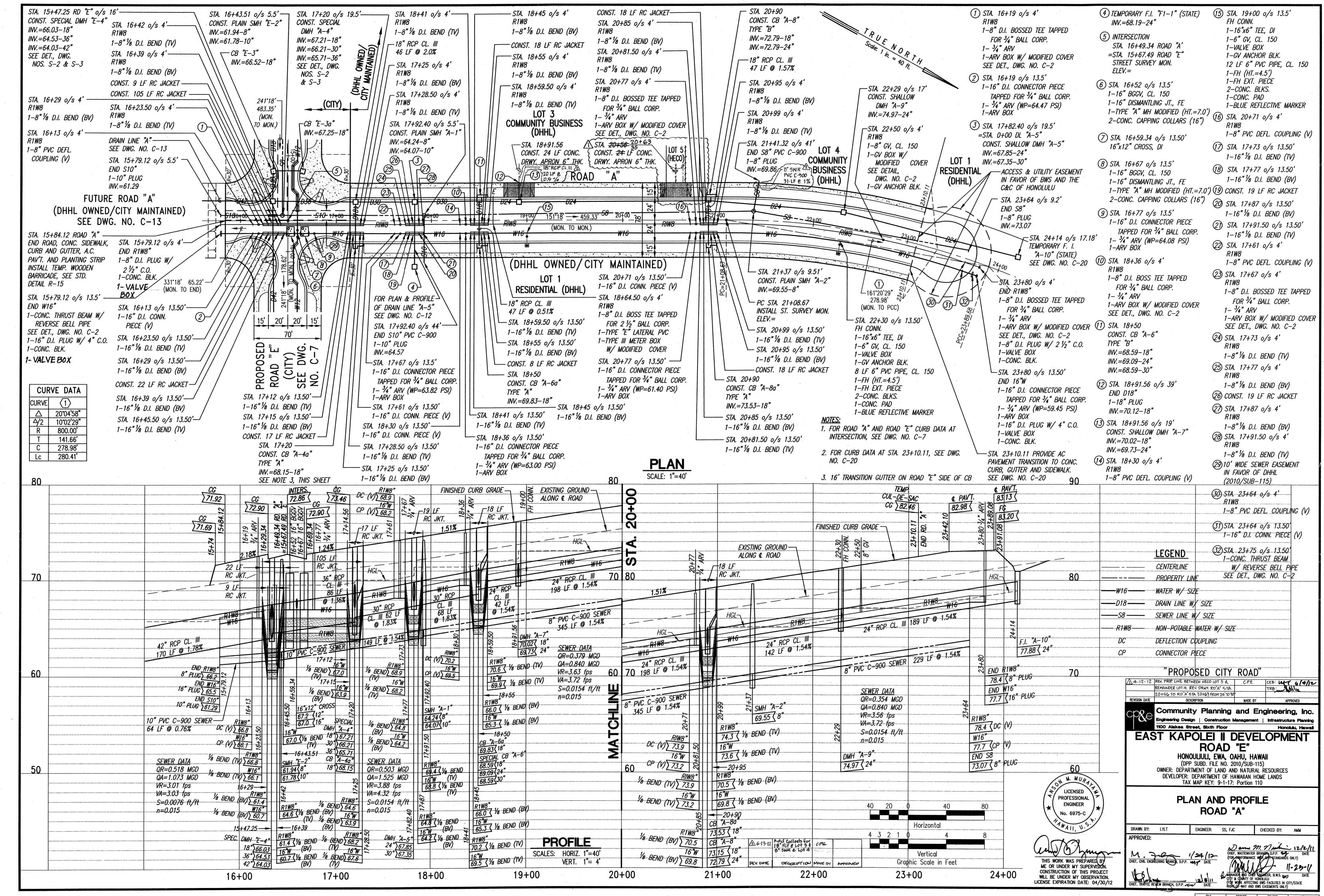
#### 2.01 MATERIALS

- A. Sewer Pipe: Polyvinyl Chloride Pipe, C-900, Class 150 (DR 18)
- B. <u>Sewer Manholes</u>: As specified in Section 23 Sewer Manholes of the "Standard Specifications."
- C. Materials for the sewer system shall be in accordance with the sections of the Standard Specifications noted hereinafter.

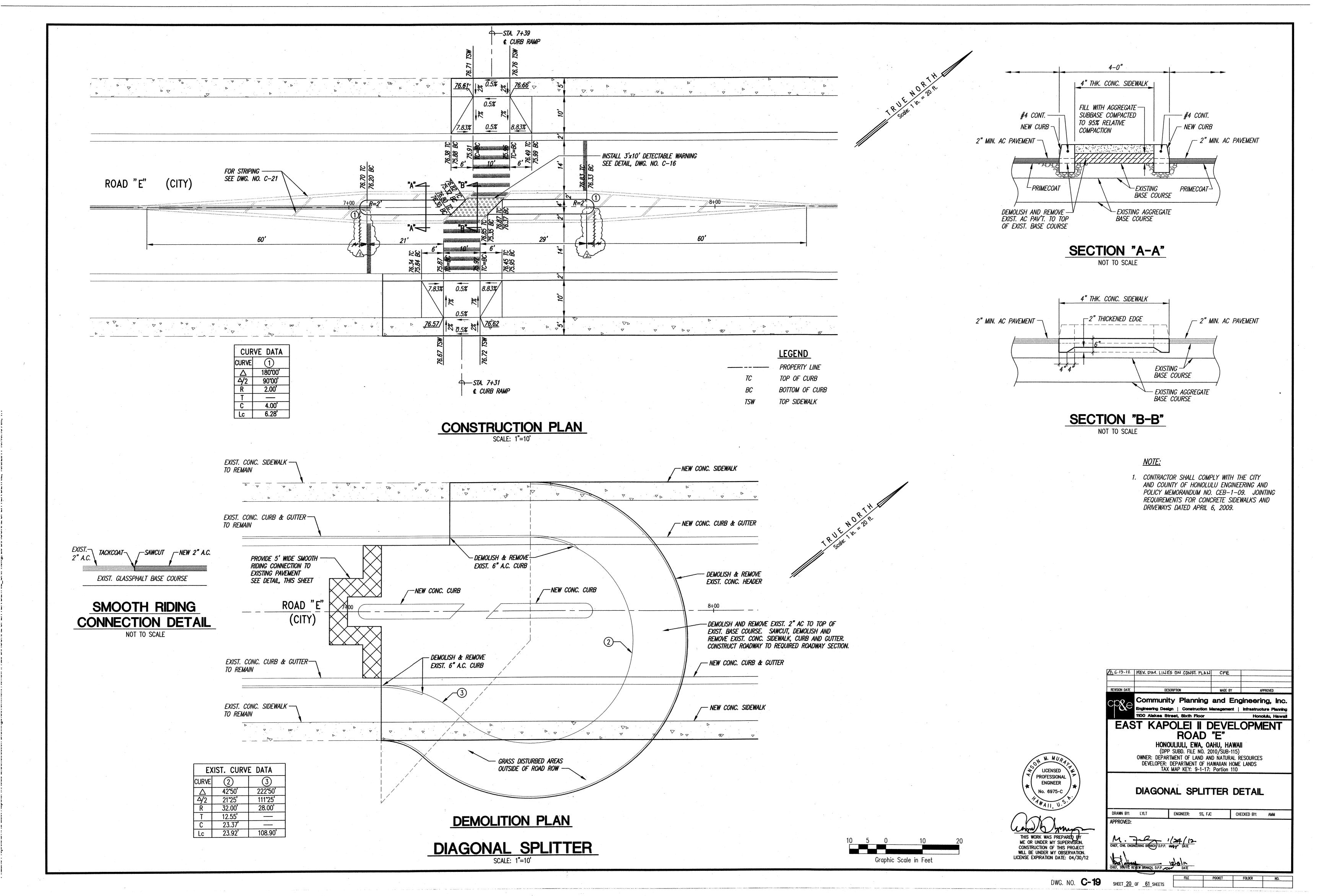
#### PART 3 – EXECUTION

- 3.01 <u>INSTALLATION</u>: Install the sewer system in accordance with the sections of the Standard Specifications noted hereinbefore.
- 3.02 The Contractor shall be responsible for precisely laying out the sewer line shown on the contract plans. The location shown on the contract plans of the various existing utility lines which the new lines are to cross over or under or connect to were determined on the basis of the best information available; however, no assurance can be provided that the actual locations will be precisely as shown on the contract plans.





DWG. NO. **C-10** SHEET 11 OF 61 SHEETS



### STREET TREE PLANTING NOTES:

- 1. UPON INSTALLATION OF THE STREET TREES, THE INSTALLER/CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PARKS AND RECREATION (DPR), AT 971-7151 TO SCHEDULE AN INSPECTION OF THE TREE(S) INSTALLATION. NOTIFICATION MUST BE GIVEN AT LEAST SEVEN (7) DAYS PRIOR TO PRE-MAINTENANCE AND FINAL INSPECTIONS. A NOTICE OF ACCEPTANCE WILL BE ISSUED BY THE DEPARTMENT OF PARKS AND RECREATION WHEN THEY HAVE DETERMINED THE TREES HAVE BEEN PROPERLY INSTALLED AND MAINTAINED.
- 2. THE STREET TREE MAINTENANCE PERIOD SHALL BE FOR NINETY (90) CALENDAR DAYS OR UNTIL PROJECT MAINTENANCE HAS BEEN ASSUMED BY ADJACENT PROPERTY OWNER AND/OR THE COMMUNITY ASSOCIATION.
- THE STANDARD CITY AND COUNTY OF HONOLULU, DEPARTMENT OF PARKS AND RECREATION SPECIFICATIONS FOR STREET TREE PLANTING AND LANDSCAPING SHALL BE MADE PART OF THE CONSTRUCTION DOCUMENTS.
- 4. STREET TREE PLANS THAT HAVE BEEN REVISED OR PROJECTS THAT HAVEN'T STARTED CONSTRUCTION WITHIN TWO (2) YEARS OF THE DATE OF THE DEPARTMENT OF PLANNING AND PERMITTING (DPP) APPROVAL WILL BE SUBJECT TO RE—APPROVAL. WHEN SUBSTITUTION OF TREE TYPES ARE REQUESTED BY THE DEVELOPER OR CONTRACTOR DUE TO UNAVAILABILITY, THE PLANS SHALL BE REVISED (AFTER NOTIFICATION OF TREE SELECTION) AND (THE PLANS) SUBMITTED FOR RE—APPROVAL.
- PRIOR TO ACCEPTANCE OF THE TREE INSTALLATION BY THE DIVISION OF URBAN FORESTRY, DEPARTMENT OF PARKS AND RECREATION, THE STREET INSTALLER IS REQUIRED TO SUBMIT REPRODUCIBLE AS-BUILT PLANS TO THE DEPARTMENT OF PARKS AND RECREATION.
- 6. APPROVAL IS FOR STREET TREE PLANTING WITHIN THE ROAD RIGHT-OF-WAY ONLY. IT IS NOT AN APPROVAL OF THE PLANTING AN IRRIGATION PLAN OUTSIDE OF THE ROAD RIGHT-OF-WAY.
- 7. THE CITY SHALL BE RESPONSIBLE TO TRIM THE TREE(S). JAMES CAMPBELL COMPANY AND/OR THE COMMUNITY ASSOCIATION, HOMEOWNER OR LOT OWNER IS RESPONSIBLE TO MAINTAIN THE TREE(S) AND ANY IRRIGATION SYSTEM AND PAY FOR WATER AND ELECTRICITY AS REQUIRED FOR MAINTENANCE OF THE STREET TREES AND PLANTING STRIPS WITHIN THE ROAD RIGHTS—OF—WAY ABUTTING THEIR PROPERTIES.
- THE STREET LIGHTING SYSTEM SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION. ANY RELOCATION REQUIRED SHALL BE APPROVED BY THE MECHANICAL/ELECTRICAL DESIGN AND ENGINEERING DIVISION, DEPARTMENT OF DESIGN AND CONSTRUCTION, AND PAID FOR BY THE CONTRACTOR.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE CITY'S EXISTING STREET LIGHTING FACILITIES, TRAFFIC SIGNAL FACILITIES (INCLUDING THE TRAFFIC SIGNAL INTERCONNECT SYSTEM, COMMUNICATIONS FIBER OPTIC CABLE SYSTEM AND TRAFFIC SIGNAL FIBER OPTIC CABLE SYSTEM). ANY AND ALL DAMAGES TO THESE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS COST IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY AND COUNTY OF HONOLULU.
- 10. NEW TREES SHALL BE PRE-APPROVED AT THE NURSERY BY THE LANDSCAPE CONTRACTOR AND CONCURRED BY THE DIVISION OF URBAN FORESTRY (DUF) TWO WEEKS PRIOR TO THEIR DELIVERY TO THE PROJECT SITE. PLEASE CONTACT BRANDON AU, PARK GROUNDS IMPROVEMENT SUPERVISOR II OF DUF, AT 971-7151 TO SCHEDULE AN INSPECTION.

### PLANTING NOTES:

- 1. LANDSCAPE CONTRACTOR SHALL FIELD VERIFY ALL PLANT QUANTITIES AND DIMENSIONS PRIOR TO INSTALLATION. QUANTITIES SHOWN IN PLANT LIST ARE FOR CONVENIENCE ONLY. PLANS SHALL GOVERN.
- 2. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
- 3. NOTIFY AND MEET WITH THE CITY PRIOR TO PLANT INSTALLATION FOR VERIFICATION/INTERPRETATION OF PLANS.
- 4. NOTIFY CITY OF ANY DISCREPANCIES IN PLANT LOCATIONS OR INSUFFICIENT PLANT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.
- 5. NOTIFY OFFICER-IN-CHARGE 30 DAYS PRIOR TO PLANTING OPERATIONS FOR APPROVAL OF ALL PLANT MATERIAL AT PLACE OF GROWTH. ALL PLANT MATERIAL NOT APPROVED BY THE OFFICER-IN-CHARGE WILL BE SUBJECT TO REJECTION.
- 6. THE LANDSCAPE CONTRACTOR SHALL INSTALL A 4" LAYER OF IMPORTED SOIL MATERIAL WITH AMENDMENTS OVER ALL PLANTING AREAS, LANDSCAPE CONTRACTOR TO COORDINATE LANDSCAPE PLANTING OPERATIONS WITH THE GENERAL CONTRACTOR AND/OR THE FINISH GRADING CONTRACTOR.
- 7. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING TREES WITHIN THE CONSTRUCTION SITE.

## PLANT SCHEDULE

<del></del>					
TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	54	CASSIA X NEALIAE	RAINBOW SHOWER	25 GALLON A	
SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	169	HIBISCUS X 'HULA GIRL'	HULA GIRL HIBISCUS	3 GAL@ 18" OC	
SOD/SEED	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	46,306 SF	CYNODON DACTYLON	BERMUDA GRASS	HYDRO SPRIG	

# REFERENCE NOTES SCHEDULE

DESCRIPTION

4" LAYER TOP SOIL

2" LAYER SOIL AMENDMENT

46,539 SF

2" LAYER BLACK CINDER
OVER FILTER FABRIC

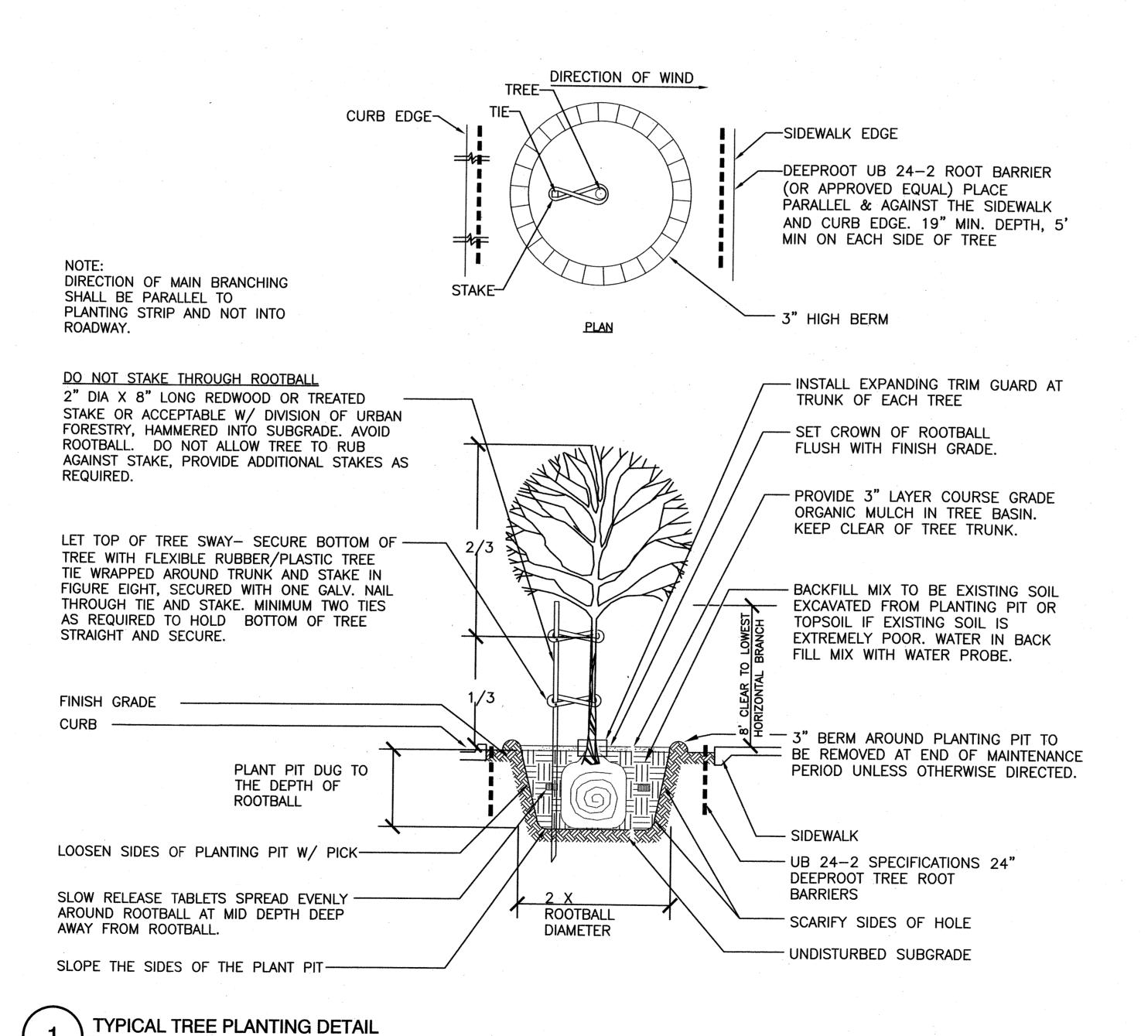
FILTER FABRIC

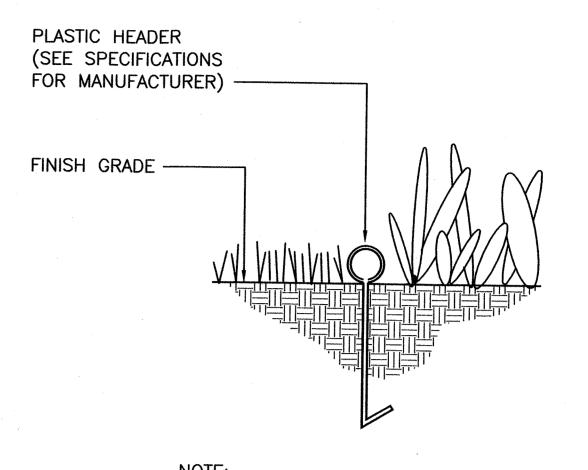
727 SF

PLASTIC HEADER

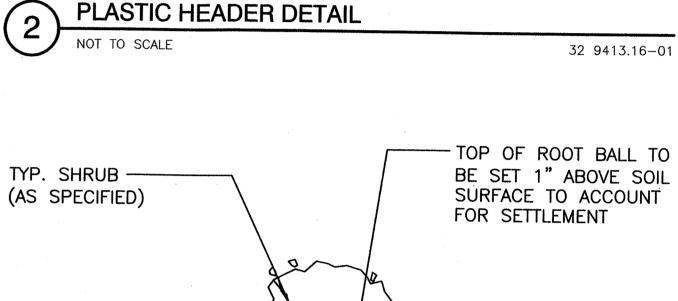
1,296 LF

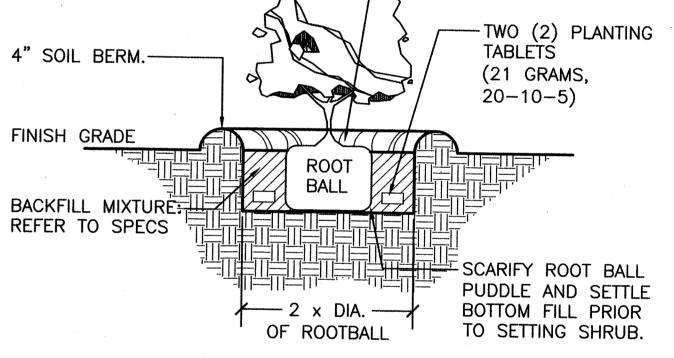
NOT TO SCALE

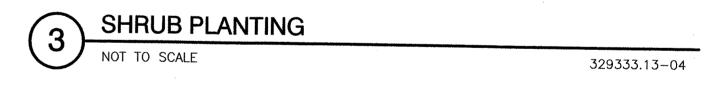


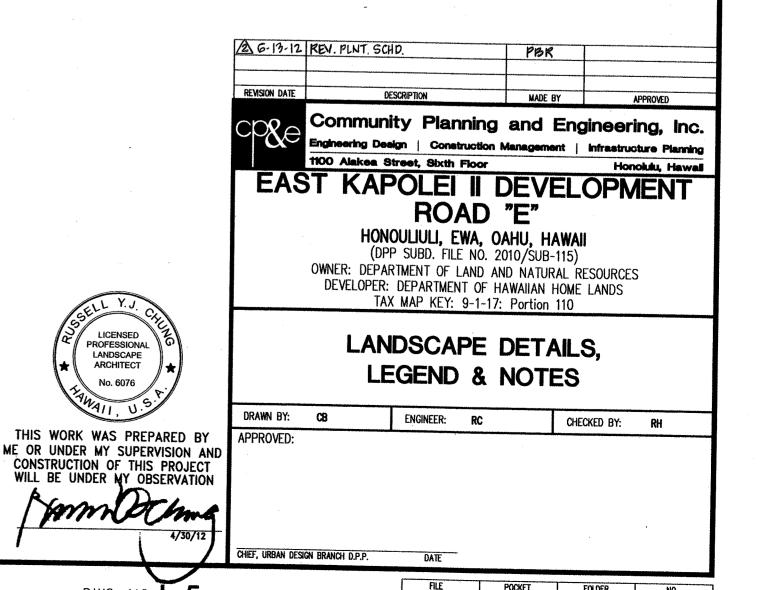


REFER TO MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS.









SHEET 61 OF 61 SHEETS