DEPARTMENT OF HAWAIIAN HOME LANDS STATE OF HAWAII

MARCH 7, 2012	
ADDENDUM NO. 2	TO

PROPOSAL, SPECIFICATIONS, CONTRACT AND BOND FOR IFB NO.: IFB-12-HHL-001

KAKAINA SUBDIVISION, WAIMANALO

LOCATION: ISLAND OF OAHU, HAWAII TAX MAP KEY: 4-1-08: 10, 81, & 91

NOTICE TO ALL PROSPECTIVE BIDDERS

This addendum is hereby made a part of the contract documents for KAKAINA SUBDIVISION, WAIMANALO, OAHU, HAWAII, and it shall amend the said contract documents as detailed within this Addendum document.

	APPROVED:		
æ	Albert "Alapaki" Nahale-A, Chairman Hawaiian Homes Commission	Date: March 7, 2012	
	Please detach, execute, and return immediatel Hawaiian Home Lands, P. O. Box 1879, Honolulu		
	Receipt of Addendum No. 2 for KAKAINA HAWAII, is hereby acknowledged.	A SUBDIVISION, WAIMANALO, OAHU,	~ ~ ~ ~
	Signed	Title	
	Firm	Date	

ADDENDUM NO. 2 TO PROPOSAL, SPECIFICATIONS, CONTRACT AND BOND FOR KAKAINA SUBDIVISION, WAIMANALO

IFB-12-HHL-001

OAHU, HAWAII

TAX MAP KEY: 4-1-08: 10, 81, & 91

IFB-11-HHL-001 is revised as follows:

ADVERTISEMENT FOR BIDS

Sealed Bids for IFB-12-HHL-001 for the construction of on- and off-site infrastructure and lot grading for Kakaina Subdivision, Waimanalo, Oahu, Hawaii (TMK: 4-1-08: 10, 81 & 91) will be received by the Department of Hawaiian Home Lands (DHHL), Land Development Division at the 91-5420 Kapolei Parkway, Kapolei, Hawaii 96707 until 2:00 p.m., Hawaii Standard Time, March 8, 2012 March 15, 2012 and then at said office 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 (March 7, 2011) Bid Offer Form attached to this addendum.

CONSTRUCTION PLANS

- 1. Replace Sheets 1, 10, 11, 12, 16, 20, 22, 23, 24, 25 and 42 with the attached:
 - Sheet 1 Title Sheet
 - Sheet 10 Elevation Plan Kakaina Street
 - Sheet 11 Elevation Plan Hihimanu Street
 - Sheet 12 Elevation Plan Poalima Street
 - Sheet 16 Erosion Control Details
 - Sheet 20 Plan & Profile Road "A" Sta 0+00 to 5+00
 - Sheet 22 Plan & Profile Road "B"
 - Sheet 23 Plan & Profile; Hihimanu Street
 - Sheet 24 Plan Kakaina Street & Miscellaneous Profiles
 - Sheet 25 Plan Poalima & Mekia Street
 - Sheet 42 Water Details 20" Waterline External Corrosion Protection & Trench Repavement

REQUESTS FOR INFORMATION

1. The plans and specifications for the subject project included US Department of Agriculture Rural Utilities Service "Contractor's" bond forms. I assume the included form, if used, would be in lieu of the usual State Performance and State Payment bond

forms. Please advise if DHHL will accept the usual State Performance & Payment bond forms.

This solicitation will result in three contracts for different components of the work (DHHL contract, Na Kupa'a contract, SIC contract). Each will require separate performance and payment bonds on different approved forms. Please refer to the following sections of the IFB: DHHL Contract (Section 06f); Na Kupa'a contract (Sections 06h and 06i); SIC contract (Section 05a, pages 151 – 157).

2. The plans and specs also include a Bid Bond form prepared by the Engineers Joint Contract Documents Committee. Please advise if DHHL will accept the usual and customary State Bid Bond form normally used for DHHL project in lieu of the sample EJCDC form?

The State format for Bid Bonds (Section 06f, Exhibit A) may be submitted instead of the EJCDC form, provided that surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

3. The soils report calls for impervious non-expansive import fill. If impervious fill cannot be found that meets the spec, Fewell (FGE) suggests using fill that is more pervious, but a sub-drain system is needed. There is no layout or details for a sub-drain system. If one is needed, would it connect to the catch basins? What is the spacing of the sub-drains?

Per the soils report the suggestion to use a sub-drain system if more pervious fill is utilized is correct. At this time, due to the unknown factor of the type of soil fill being proposed, the plans will not be modified to accommodate a layout/design or details of a sub-drain system. Contractors shall bid the plans and specification as outlined in the proposal schedule.

4. Is there a pay item for the mailbox?

No. The United States Postal Service will furnish and install the cluster mailbox units.

5. Does the dust screen have chain link fabric? The plan does not call it out, but if the Mirafi 140 NL fabric is attached with grommets, what does the grommets attach to? If there is chain link, what gauge would the wire be? Would the cross brace be welded between each post? What is the cross brace? A pipe? What size is it? In past DHHL projects, dust screens using wood posts and braces were specified. Can this be an option for the dust screen in lieu of the 4" pipe posts with concrete footings?

Please refer to revised sheet 16 for updated dust screen detail.

Details provided in the plans for the dust screen are to accommodate the existing condition of the site. If the Contractor chooses to use wood posts and braces as mentioned and specified in past DHHL projects, it is the Contractor's sole

responsibility to ensure that the dust screen is can be built and that the site is constructible at no additional cost or time to DHHL.

6. There are some companies that will rent a dust screen fence. As this fence will not be permanent, would it be possible to bid the project using a rental dust screen fence?

Provided that the dust screen can remain in place as specified per the contract documents the Contractor can bid the item as it sees fit.

7. Is there select fill under the grade adjustment wall or the concrete ditch? The details do not show any, and the lot sections may or may not show select fill underneath. The cross sections are too small to make a definite determination.

There is no select fill under the grade adjustment wall or concrete ditch. There is as indicated on the plans and in the cross sections relatively impermeable low-expansion fill.

8. Will the Contractor be able to have 24 hour lane closures during the construction of the offsite roads? It would be hard to excavate and come up in lifts in a single day. The paving Subcontractor will charge a mobilization fee for each start and stop of the paving. Can we close the roads to two-way traffic for several days? One way traffic can be provided, for access to the local traffic, during non-working hours.

Contractor specific traffic control must be submitted to the City for review and approval at the Contractor's expense.

9. In the bid items for the 2" AC, cold planning is included. Where are the areas that are supposed to be cold planed?

No cold planing as indicated in the addendum #1 proposal schedule. Please refer to the addendum #2 proposal schedule.

10. In the grading cross sections, it shows the sidewalk planter areas do not have select fill underneath, the typical road section for Road "A" and Road "B" also show the sidewalk on the native soil. Is this correct? The sidewalks on the offsite roadways show 6" of select borrow.

Per the soils report, no select borrow subbase is necessary under the sidewalks, curbs and gutters for the streets as shown on the plans.

The work on off-site roadways (Kakaina Street & Hihimanu Street) includes 6-inches of select borrow in lieu of the 3-feet of overexcavation.

11. What are limits for bid items 22, 23, 24 & 24? Would the balance of paving on Poalima and Mekia Streets be incidental the drainage excavation? The pavement for the trench repair differs from the unit price items.

Please refer to the addendum #2 proposal schedule for additional bid item for trench repayement.

12. What are the limits for bid items 26, 27, 28, & 29? Would the balance of paving be incidental to the water excavation item?

Please refer to the addendum #2 proposal schedule for additional bid item for trench repayement.

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Bid Form

Project Identification: Kakaina Subdivision

Contract Identification and Number: IFB-12-HHL-001

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ARTICLE 1 - BID RECIPIENT

- 1.01 This Bid Is Submitted To: <u>Department of Hawaiian Home Lands</u>, 91-5420 Kapolei Parkway, Kapolei, Hawaii 96707
- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in the Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 - BIDDER'S ACKNOWLEDGMENTS

2.01 Bidder accepts all of the terms and conditions of the Advertisement and Instructions to Bidders, including without limitations those dealing with the dispositions of Bid security. The Bid will remain subject to acceptance for 120 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

- 3.01 In submitting this Bid, Bidder represents that:
 - A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.	Addendum Date
1	02/29/2012
2	_ 03/07/2012

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to all Federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in SC-4.02, and (2) reports and drawings of Hazard Environmental Conditions, if any, at the Site that have been identified in SC-4.06 as containing reliable "technical data."
- E. Bidder has considered the information known to Bidder; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder's safety precautions and programs.
- F. Based on the information and observations referred to in Paragraph 3.01.E above, Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of the Work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- J. Bidder will submit written evidence of its authority to do business in the State or

other jurisdiction where the Project is located not later than the date of its execution of the Agreement.

ARTICLE 4 - BIDDER'S CERTIFICATION

- 4.01 Bidder further represents that:
 - A. This Bid is genuine and not made in the interest of or on the behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation;
 - B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid:
 - C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
 - D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 - 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 - BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

Item	Estimated		Unit	
No.	Quantity	Description	Price	Total
I. MASS	GRADING			
•	ntals necessary to	the following items shall include furnishing all materials, la to install or to construct these items in place complete, all in		•
1	9	Acres, Clearing and Grubbing of subdivision site, including removal of debris and grubbed material from the site.		
		Per Acre	\$	\$
2	47,500	Cu. yds., Unclassified Mass Excavation for Roadways and Lots including removal and disposal of uncompacted fill and expansive soils, and placement compaction and grading of the suitable excavated material placed 4.0 below lot finish grade and 3.0 feet below residential street pavement section.		
		The licensed surveyor selected in Special Conditions (SC-05) shall be retained by the Contractor to accurately compute quantities of site excavation by the average area end method under the pay item. When site excavation quantities by average area end method cannot be computed, the Construction Manager will determine the use computation methods that will produce an accurate quantity.		
		The licensed surveyor shall perform a topographic survey of the existing site conditions, after clearing and grubbing is completed, but before excavation. The level of detail provided by the survey shall require concurrence by DHHL prior to excavation activities. The cost of the surveyor is incidental to this pay item.		

3 28,270

Sq. yds., Fine Grading of lot areas, including transformer easement and cluster mail box easement locations.

Payment shall be at the contract price pay unit as shown in the proposal schedule. The total shown on the bid proposal cost shall be used for bid comparison

purposes only.

Per Sq. Yd. \$

\$

Per Cu. Yd. \$

4	41,900	Cu. yds., Imported low-expansion impermeable borrow fill, in place complete.		
		The difference between the excavation survey and the final grading survey shall be used to compute the		
		quantities of fill material. The licensed surveyor for Pay Item No. 2 shall be used to accurately compute		
		quantities of import fill by the average area end method under this pay item. When imported fill quantities by average area end method cannot be computed, the		
		Construction Manager will determine and use computation methods that will produce an accurate quantity.		
		Payment shall be at the contract price pay unit as shown in the proposal schedule. The total shown on the bid proposal cost shall be used for bid comparison		
		purposes only.		
		Per Cu. Yd.	\$	\$
5	30,763	Sq. Ft., Hydromulch with seeds for grassing of slope banks, lot swales and ditches.		
		Per Sq. Ft.	\$	\$
6	221,990	Sq. Ft., Hydromulch with seeds for grassing of lot pads.		
		Per Sq. Ft.	\$	\$
_	20.025			
7	30,935	Sq. Ft., Hydromulch with seeds for grassing of remainder lot after the Contractor's use as a baseyard/staging area		
		Per Sq. Ft.		\$
8	1,710	Lin. Ft., Dust Screen & Silt Fence combination, in		
	1,710	place complete, including maintenance and removal as specified and required.		
		Per Lin. Ft.	\$	\$
9	1,410	Lin. Ft., Dust Screen, in place complete, including maintenance and removal as specified and required.		
		Per Lin. Ft.	\$	\$
10	L.S.	Temporary Erosion Control (inclusive of but not		
		limited to, sediment basins, earth berms, NPDES		
		permit requirements, roadway cleaning and other erosion control measures, including maintenance and		
		removal as specified and required.		
		Lump Sum	-	\$

11	2	Temporary storm drain inlet protection "Dandy Bag" sediment filter (by Dandy Products, Inc. or equal).
	730	Per Each \$ \$ Lin. Ft., 6-foot high chain link fence around remainder lot.
12		Per Lin. Ft. \$ \$
13	1	Each., 6-foot high double swing gate at remainder lot. Per Each \$ \$
14	728	Lin. Ft., Grade Adjustment Wall "A" Per Lin. Ft. \$ \$
15	151	Lin. Ft., Grade Adjustment Wall "B" Per Lin. Ft. \$ \$
	L.S.	Items related to maintaining a Fire Contingency Plan as specified in the Special Conditions (SC-31 & SC-32)
16		Lump Sum \$
17	L.S.	Field Office, including installation and removal, in place complete.
		Lump Sum \$
		SUB-TOTAL FOR MASS GRADING (Items 1 to 17 inclusive) \$

II. ROADWAYS

The prices bid herein for the following items shall include furnishing all materials, labor, tools, equipment, machinery and all incidentals necessary to install or to construct these items in place complete, all in accordance with the plans and specifications.

18	7,080	Sq. Yds., Fine Grading of Right of Way areas.	q. Yds., Fine Grading of Right of Way areas.	
		Per Sq. Yd\$	Per Sq. Yd\$\$	
19	3,360	Sq. Yds., Asphaltic Concrete Pavement, Mix No. 4, 2 inches thick.	A	
		Per Sq. Yd. \$	Per Sq. Yd \$\$	
20	3,360	Sq. Yds., Asphalt Concrete Base Course, 3 inches thick, including prime coat.	•	
		Per Sq. Yd\$	Per Sq. Yd \$\$	
21	3,360	Sq. Yds., Untreated Aggregate Base Course, 6 inches thick.		
		Per Sq. Yd. \$	Per Sq. Yd. \$	

22	L.S.	Connection to existing Poalima Street including smooth riding connection to the existing pavement	Page 7
		Lump Sum	_ \$
23	190	Sq. Yds., Asphalt Concrete Base Course, 4 inches thick (Poalima Street)	
		Per Sq. Yd \$	\$
24	190	Sq. Yds., Aggregate Base Course, 12 inches thick (Poalima Street)	
		Per Sq. Yd. \$	
25	190	Sq. Yds., 2 inches Asphaltic Concrete Pavement, including cold planing (Poalima Street)	
		Per Sq. Yd\$	\$
26	L.S.	Connection to existing Hihimanu Street including smooth riding connection to the existing pavement	
		Lump Sum	\$
27	530	Sq. Yds., Asphalt Concrete Base Course, 4 inches thick (Hihimanu Street)	
		Per Sq. Yd \$	\$
28	530	Sq. Yds., Aggregate Base Course, 12 inches thick (Hihimanu Street)	
		Per Sq. Yd\$	\$
29	530	Sq. Yds., 2 inches Asphaltic Concrete Pavement, including cold planing (Hihimanu Street)	
		Per Sq. Yd. \$	\$
30	L.S.	Connection to existing Kakaina Street including smooth riding connection to the existing pavement	
		Lump Sum	\$
31	1,770	Sq. Yds., Asphalt Concrete Base Course, 4 inches thick (Kakaina Street)	
		Per Sq. Yd\$	\$
32	1,770	Sq. Yds., Aggregate Base Course, 12 inches thick (Kakaina Street)	
		Per Sq. Yd\$	\$

33	1,770	Sq. Yds., 2 inches Asphaltic Concrete Pavement, including cold planing (Kakaina Street)		
		Per Sq. Yd	. \$	_ \$
34	13	Each, Standard City & County of Honolulu street survey monument		
		Per Each	n _ \$	\$
35	3	Each, Standard City & County of Honolulu street centerline monument		
		Per Each	n _ \$	
36	4,110	Lin. Ft., Standard integral concrete curb and gutter, including curb & gutter transition.		
		Per Lin. Ft	\$	\$
37	19,370	Sq. Ft., Class "B" Concrete sidewalk, 4 inches thick		
		Per Sq. Fo	\$	\$
38	2,690	Sq. Ft., Class "B" Concrete curb ramp, 4 inches thick		
		Per Sq. Fo	\$	\$
39	5,940	Sq. Ft., Reinforced concrete driveway apron, 4 inches thick		
		Per Sq. Ft	. \$	\$
40	21,580	Sq. Ft., Topsoil, 4 inches thick		
		Per Sq. Ft	. \$	\$
41	3	Each, 6' x 6' USPS Concrete Pad		
		Per Each	n\$	
42	470	Sq. Yds., Repave trench with A.C. pavement, base course and select subbase course to match exsting pavement (Kakaina St, Poalima St & Mekia St)		
		Per Sq. Yd	. \$	\$
		SUB-TOTAL FOR ROADWAY (Items 18 to 42 inclusive)		\$

III. DRAINAGE SYSTEM

The prices bid herein for the following items shall include furnishing all labor, equipment, tools, materials and all incidental work necessary to construct the drainage system in place complete, including excavating for catch basins and manholes, trenching for pipes, removing and disposing of unsuitable material and replacing with select material for pipe cushion, sheeting and shoring as required, backfilling, all in accordance with the plans and specifications.

43	1,500	Cu. Yds., Unclassified excavation for drain lines, catch basins, drain manholes, concrete ditch, and inlets, including backfill and pipe cushion	
		Per Cu. Yds\$	\$
44	445	Lin. Ft., 24" Reinforced concrete pipe, Class III	
		Per Lin. Ft. \$	\$
45	1,210	Lin. Ft., 18" Reinforced concrete pipe, Class III	
		Per Lin. Ft. \$	\$
46	460	Lin. Ft., 3' x 1.25' Reinforced concrete box culvert	
		Per Lin. Ft. \$	\$
47	125	Lin. Ft., 3' x 2' Reinforced concrete box culvert	
		Per Lin. Ft. \$	\$
48	8	Each, Standard reinforced concrete catch basin, Type A	
		Per Each \$	\$
49	12	Each, Standard reinforced concrete catch basin, Type B	
		Per Each\$	\$
50	1	Each, Special Type "B" reinforced concrete catch basin "B8" on Road "B"	
		Per Each \$	\$
51	1	Each, Special Type "B" reinforced concrete catch basin "D1" over existing 42" drain line	
		Per Each \$	\$
52	1	Each, Standard shallow drain manhole for sidewalk area, 4' - 4.99'	
		Per Each\$	\$
53	2	Each, Standard shallow drain manhole for pavement area, 7' - 7.99'	
		Per Each\$	\$

			-	450 10
54	2	Each, Standard shallow drain manhole for pavement area, 6' - 6.99'		
		Per Each	\$	\$
55	1	Each, Standard shallow drain manhole for pavement area, 5' - 5.99'		
		Per Each	\$	\$
56	3	Each, Standard shallow drain manhole for pavement area, 4' - 4.99'		
		Per Each	\$	\$
57	3	Each, Standard shallow drain manhole for pavement area, 3' - 3.99'		
		Per Each	\$	\$
58	327	Lin. Ft., Reinforced concrete ditch		
		Per Lin. Ft.	\$	\$
59	3	Each, Drain inlet with grate		
		Per Each	\$	\$
60	L.S.	Demolition of existing drain inlet on Hihimanu Street		
		Lump Sum		\$
61	L.S.	Drain Outlet "B"		
		Lump Sum		\$
62	14	Lin. Ft., 6' High Chain Link Fence, including fabric, posts, top rail, bracings, fittings, tension wires, excavation and backfill, concrete footings and other incidentals.		
		Per Lin. Ft.	\$	\$
63	755	Cu. Yds., Unclassified excavation for Underground Detention System (bottom of uncompacted fill to bottom of Detention System)		
			\$	\$
64	486	Cu. Yds., 3B fine compacted aggregate backfill (hand tamp) for Underground Detention System		
		Per Cu. Yd.	\$	\$

65	106	Cu. Yds., Suitable native backfill material (95% compaction, hand tamp) for Underground Detention System	
		Per Cu. Yd\$	\$
66	L.S.	Underground Detention System with access ports	
		Lump Sum	\$
67	L.S.	Protective measures (ie: underpinning, shoring, etc.) necessary to mitigate damage to surrounding buildings during the removal of the existing drain line and construction of Drain Line "B" through exsiting 10' wide easement	
		Lump Sum	\$
68	L.S.	Clearing of easement area including removal of debris from construction site at TMK 4-1-23:47	
		Lump Sum	\$
69	L.S.	Restore existing concrete driveway, property fence and mailbox for lot at TMK 4-1-23:47 as necessary.	
		Lump Sum	\$
70	Allowance	Restoration of landscaping within easement area at TMK 4-1-23:47 as necessary.	
		Allowance	\$2,000.00
		SUB-TOTAL FOR DRAINAGE SYSTEM (Items 43 to 70 inclusive)	\$

IV. TRAFFIC

The prices bid herein for the following items shall include furnishing all labor, equipment, tools materials and all incidental work necessary to construct all necessary traffic control devices in place complete, all in accordance with the plans and specifications.

71	4	Each, Pair Street name sign with post
		Per Each \$ \$
72	5	Each, R1-1 "STOP" sign.
		Per Each \$ \$
73	1	Each, W14-1 "DEAD END" sign
		Per Each \$ \$
74	3	Each, R2-1(20) "SPEED LIMIT 20 M.P.H." sign
		Per Each _ \$ \$

75	4	Each, R2-1(25) "SPEED LIMIT 25 M.P.H." sign		S
		Per Each	\$	\$
76	2	Each, Relocate existing "SPEED LIMIT 25 M.P.H." sign		
		Per Each	\$	\$
77	3	Each, Removal of existing sign		
		Per Each	\$	\$
78	16	Each, "NO PARKING" sign		
		Per Each	\$	\$
79	3	Each, "NO PARKING BEGIN" sign		
		Per Each	\$	\$
80	2	Each, "NO PARKING END" sign		
		Per Each	\$	\$
81	70	Lin. Ft., 12 inch solid white line		
		Per Lin. Ft.	\$	\$
82	1,440	Lin. Ft., 4 inch solid double yellow stripe w/ type "D" rpm @ 20' o.c.		
		Per Lin. Ft.	\$	\$
83	1	Lump Sum, Traffic control work including traffic control devices, special duty police officers, flag men, placement and removal of devices, cleanup, restoration and incidentals per the effective traffic control plans.		
		Lump Sum		\$
84	1	Allowance, Additional traffic control work including traffic control devices, special duty police officers, flag men, placement and removal of devices, cleanup, restoration and incidentals as directed by the Engineer or Owner's Representative. Allowance		\$16,000.00
		SUB-TOTAL FOR TRAFFIC		\$
		(Items 71 to 84 inclusive)]	

V. LANDSCAPING

The prices bid herein for the following items shall include all labor, tools and equipment, materials, appurtenances, and incidentals necessary to install or to construct the following items in place and complete in accordance with the plans, specifications, and to the satisfaction of the Owner. The prices do not include bonding costs.

24	Each, Installation of 25 Gal., Silver Buttonwood (3" min. caliper, 8'-10' height), in place complete. Per Each	\$	\$
15	Each, Installation of 25 Gal., Tulipwood Tree (3" min. caliper, 8'-10' height), in place complete.		
	Per Each	\$	\$
20,730	Sq. Ft., Installation of Seashore Paspalum Grass (hydroseed), in place complete.		
		\$	\$
255	Cu. yds., Installation of 4" layer topsoil under all planting areas, in place complete.		
	Per Cu. Yd.	\$	\$
610	Lin. Ft., Installation of root barrier, in place complete. Per Sq. Ft.	\$	\$
3	Months, Formal Landscape Maintenance Period, in place complete.		
		\$	\$
		1	
			\$
	15 20,730 255 610	caliper, 8'-10' height), in place complete. Per Each 15 Each, Installation of 25 Gal., Tulipwood Tree (3" min. caliper, 8'-10' height), in place complete. Per Each 20,730 Sq. Ft., Installation of Seashore Paspalum Grass (hydroseed), in place complete. Per Sq. Ft. 255 Cu. yds., Installation of 4" layer topsoil under all planting areas, in place complete. Per Cu. Yd. 610 Lin. Ft., Installation of root barrier, in place complete. Per Sq. Ft. 3 Months, Formal Landscape Maintenance Period, in place complete.	caliper, 8'-10' height), in place complete. Per Each \$ 15 Each, Installation of 25 Gal., Tulipwood Tree (3" min. caliper, 8'-10' height), in place complete. Per Each \$ 20,730 Sq. Ft., Installation of Seashore Paspalum Grass (hydroseed), in place complete. Per Sq. Ft. \$ 255 Cu. yds., Installation of 4" layer topsoil under all planting areas, in place complete. Per Cu. Yd. \$ 610 Lin. Ft., Installation of root barrier, in place complete. Per Sq. Ft. \$ 3 Months, Formal Landscape Maintenance Period, in place complete. Per Month \$ SUB-TOTAL FOR LANDSCAPING

VII. ELECTRICAL

The prices bid herein for the following items shall include all labor, tools and equipment, materials except that to be supplied by the utility companies, appurtenances and incidentals necessary to install or to construct the following items in place and complete in accordance with the drawings and specifications and standard practices of Hawaiian Electric Co. (HECO), Sandwich Isles Communications, Inc. (SIC), Hawaiian Telcom (HTCO), Oceanic Time Warner Cable (OCEANIC), and the City & County of Honolulu Department of Design & Construction, and to the satisfaction of the Developer.

91	140	Lin. Ft., Furnish and Install One 2-Inch Concrete Encased HECO Conduit. Work shall consist of excavation and providing 2" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place. Per Lin. Ft.	\$ \$
92	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.	\$ \$
93	150	Lin. Ft., Furnish and Install Two 2-Inch Direct Buried HECO Conduits. Work shall consist of excavation and providing 2" diameter conduits, with spacers, couplings, and appurtenances, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
94	1,500	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.	\$ \$

95	60	Lin. Ft., Furnish and Install One 3-Inch Direct Buried HECO Conduit. Work shall consist of excavation and providing 3" diameter conduit, with spacers, couplings and appurtenances, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
96	10	Lin. Ft., Furnish and Install Two 3- Inch Direct Buried HECO Conduit. Work shall consist of excavation and providing 3" diameter conduit, with spacers, couplings and appurtenances, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
97	10	Lin. Ft., Furnish and Install Three 3- Inch Direct Buried HECO Conduit. Work shall consist of excavation and providing 3" diameter conduit, with spacers, couplings and appurtenances, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
98	300	Lin. Ft., Furnish and Install Two 2- Inch And One 3-Inch Concrete Encased HECO Conduit. Work shall consist of excavation and providing 2 & 3" diameter conduit, with spacers, couplings and appurtenances, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
99	400	Lin. Ft., Furnish and Install Two 2- Inch And One 3-Inch Direct Buried HECO Conduit. Work shall consist of excavation and providing 2 & 3" diameter conduit, with spacers, couplings and appurtenances, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
100	50	Lin. Ft., Furnish and Install Two 2- Inch And Two 3-Inch Direct Buried HECO Conduit. Work shall consist of excavation and providing 2 & 3" diameter conduit, with spacers, couplings and appurtenances, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$

101	100	Lin. Ft., Furnish and Install One 4-Inch Concrete Encased CATV Conduit. Work shall consist of excavation and providing 4" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled per Oceanic Cable requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
102	400	Lin. Ft., Furnish and Install One 1/4-Inch Concrete Encased Street Light Conduit. Work shall consist of excavation and providing 1/4" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
103	350	Lin. Ft., Furnish and Install One 1/2-Inch Concrete Encased Street Light Conduit. Work shall consist of excavation and providing 1/2" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
104	50	Lin. Ft., Furnish and Install One 2-Inch Concrete Encased Street Light Conduit. Work shall consist of excavation and providing 2" diameter conduit, with spacers, couplings, appurtenances, and concrete jacket, backfilled per HECO requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
105	10	Each, Furnish and Install 17"x 30" Non-Concrete HECO Pullbox, cover with locking device and extension, provided in accordance with HECO standard drawing No. 30-2006 and 011314, complete and in place.	
		Per Each	\$ \$
106	4	Each, Furnish and Install 13"x 24" Non-Concrete HECO Pullbox, cover with locking device, provided in accordance with HECO standard drawing No. 30-2006, complete and in place.	
		Per Each	\$ \$

107	13	Each, Furnish and Install 2'x 4' Reinforced Concrete HECO Pullbox with precast concrete covers, provided in accordance with HECO standard drawing No. 30-2005, complete and in place.	
		Per Each	\$ \$
108	6	Each, Furnish and Install 3'x 5' Reinforced Concrete HECO Handhole with precast concrete covers, provided in accordance with HECO standard drawing No. 15501, complete and in place.	
		Per Each	\$ \$
109	1	Each, Furnish and Install 4'x 6' Reinforced Concrete HECO Handhole with precast concrete covers, provided in accordance with HECO standard drawing No. 18842, complete and in place.	
		Per Each	\$ \$
110	1	Each, Furnish and Install 2'x 4' Reinforced Concrete HTCO Pullbox with two piece checkered steel plate covers, similar to HTCO standard drawing No. 34056 except with "CATV" inscribed on cover, complete and in place. Provide additional base if more than two 4" conduits enter the "short" end.	
		Per Each	\$ \$
111	2	Each, Furnish and Install Type "A" Precast Concrete Street Light Pullbox (City) with polymer cover, provided in accordance with the City & County of Honolulu Dept. of Transportation Services Type "A" standard pullbox drawing.	
		Per Each	\$ \$
112	5	Each, 6'x 7' HECO 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.	
		Per Each	\$ \$
113	1	Each, Install CATV Power Supply Pedestal, FRP Pad, and Plastic Support Box furnished by Oceanic Cable.	
		Per Each	\$ \$

114	7	Each, Furnish and Install Street Lighting Luminaire (100W) and Bracket Arm. Work shall consist of providing street lighting luminaire and bracket arm, mounted on utility pole, in accordance with the City & County of Honolulu Mechanical/Electrical Division Standards and as indicated on the drawings, complete and in place. Per Each	\$	\$
		I of Bach	Ψ	
115	2	Each, Furnish and Install Street Lighting Luminaire (100W), Bracket Arm, and Pole. Work shall consist of excavating, constructing reinforced concrete foundation, and backfilling for new pole, and providing street lighting luminaire and bracket arm, mounted on utility new pole, in accordance with the City & County of Honolulu Mechanical/Electrical Division Standards and as indicated on the drawings, complete and in place.		
		Per Each	\$	\$
116	18	Each, Furnish and Install Street Lighting Standard (70W IES Type III). Work shall consist of excavating, constructing reinforced concrete foundation, backfilling, and providing street lighting standard, luminaire and bracket arm in accordance with the City & County of Honolulu Mechanical/Electrical Division Standard and as indicated on the drawings, complete and in place.		
		Per Each	\$	\$
117	800	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.	\$	\$
		rei Ein. Pt.	Ψ	
118	1	Each, Remove Street Lighting Luminaire & Bracket Arm. Work shall consist of removing existing pole mounted street light luminaire and bracket arm, and disposing in a lawful manner.		
			\$	\$
119	2	Each, Furnish and Install 2" HECO Conduit Risers. Provide conduit risers up utility pole per HECO requirements, complete and in place. Per Each	\$	\$
		SUB-TOTAL FOR ELECTRICAL (Items 91 to 119 inclusive)		\$

VII. HIHIMANU STREET 20-INCH WATER MAIN RELOCATION

The prices bid herein for the following items shall include furnishing all labor, equipment, tools materials and all incidental work necessary to construct the water system in place complete, including excavating for water lines and appurtenances, pipe cushion, backfilling, sheeting and shoring as required, all in accordance with the plans and specifications.

1		
120	381	Cu. yds., Unclassified excavation for water mains, manholes and appurtenances, including backfill, and pipe cushion (high resistance cushion material).
		Per Cu. Yd\$\$
121	339	Lin. ft., 20-inch Ductile iron pipe, Class 52 including bonded tape coating
		Per Lin. Ft\$\$
122	24	Lin. ft., 8-inch Ductile iron pipe, Class 52 including bonded tape coating.
		Per Lin. Ft\$\$
123	16	Lin. Ft., 8" Polyvinyl chloride pipe, C900, Class 150.
		Per Lin. Ft. \$ \$
124	2	Each, 8-inch Gate Valve including bonded tape coating
		Per Each \$ \$
125	2	Each, Standard C.I. valve box and cover. Per Each \$ \$
126	2	Each, 20-inch Resilient Gate Valve with Dismantling Joint 4-inch by-pass line including bonded tape coating
		Per Each \$ \$
127	2	Each, Type A Manhole for Butterfly Gate Valves
		Per Each \$ \$
128	1	Each, Offset Air Relief Valve for 20" Main
		Per Each \$ \$
129	1	Each, Type D Manhole for Offset Air Relief Valve
		Per Each \$ \$

130	18	Cu. yds., DWS 2500 concrete including reinforced steel wherever necessary for pipe reaction and test blocks. Per Cu. Yo	1. \$	\$
131	29	Lin. ft., Reinforced concrete jacket.	t\$	
132	8,405	Pounds, Cast iron fittings including bonded tape coating Per Ll	o\$	\$
		2 - 20" x8" Tee, MJ @ 845 1 - 20" 1/4 Bend MJ @ 790 2 - 20" 1/8 Bend, MJ @ 595 2- 20" 1/8 Bend, MJ x FE @ 565 4 - 20" 1/16 Bend MJ @ 605 2 - 20" 1/32" Bend, MJ @ 610 2 - 20" 1/32" Bend, MJ x FE @ 500 2 - 20" Coupling (CCP to D.I.) @ 125 1 - 8" Tee, MJ @ 185 1 - 8" 1/4 Bend MJ @ 125 1 - 8" 1/16 Bend MJ @ 110 1 - 8" 1/32 Bend MJ @ 110 1 - 8" Plug @ 45	1,690 790 1,190 1,130 2,420 1,220 1,000 250 185 125 110 110 45	
		TOTA	L 10,265	
133	2	20" Baker Coupling (CCP to DI) Per Eac	h _ \$	\$
134	28	Electronic Markers Per Eac	h _ \$	\$
135	2	Each, Connection to existing 20-inch main Per Eac	h _ \$	\$
136	1	Each, Connection to existing 8 inch service main. Per Eac	h\$	\$
137	2	Each, 4-inch Cleanout Assembly Per Eac	h\$	\$
138	5	Each, Cut and Plug existing 20-inch main Per Eac	h _ \$	\$
139	275	Sq. Yds., 2 inches Asphaltic Concrete Pavement, including cold planning (Hihimanu Street) Per Sq. Yds.	s. \$	\$
140	275	Sq. Yds., Asphalt Concrete Base Course, 4 inches thick		· ·
		(Hihimanu Street)	1 \$	\$

141	275	Sq. Yds., Aggregate Base Course, 12 inches thick (Hihimanu Street)	d.	¢.
		Per Sq. Yd.	\$	\$
142	L.S.	Remove existing 20-inch main within private property, plug existing to be abandoned in-place		, c
		Lump Sum		\$
143	L.S.	Remove existing 6-inch main within private property, plug existing to be abandoned in-place Lump Sum		\$
144	L.S.	Pipe Joint Bonding at the joints of all buried metallic pipe, including vault and manhole piping and all fittings except joints specified to be threaded, welded or insulated. Also includes electrical continuity testing as specified in BWS Water System External Corrosion Control Standards		•
		Lump Sum		\$
145	3	Each, Flush Mounted Test Station type "I" per BWS standard corrosion control detail <u>9</u> including testing as specified in BWS Water System External Corrosion Control Standards Per Each	\$	\$
146	1	Each, Flush Mounted Test Station type "T" with 18 lb zinc anode (ASTM-B-418 Type II),1.4"x1.4"x36", per BWS standard corrosion control detail <u>8</u> including testing as specified in BWS Water System External Corrosion Control Standards Per Each	\$	\$
		rei Each	φ	_ Ψ
147	3	Each, Galvanic Anode Installation using 18 lb zinc anode (ASTM-B-418 Type II),1.4"x1.4"x36", per BWS standard corrosion control detail 13 including testing as specified in BWS Water System External Corrosion Control Standards Per Each	\$	\$
1.40	1.0			
148	L.S.	Flushing, testing and chlorination of the entire system. Lump Sum		\$
149	L.S.	Temporary Erosion Control Lump Sum		_ \$
150	L.S.	Restore Existing Concrete Driveway, Curb and Gutter at TMK: 4-1-06:267		
		Lump Sum		\$
		SUB-TOTAL FOR HIHIMANU ST. 20-INCH WATER MAIN RELOCATION (Items 120 to 150 inclusive)		\$

VIII. SEWER SYSTEM

The prices bid herein for the following items shall include furnishing all labor, equipment, tools materials and all incidental work necessary to construct the sewer system in place complete, including excavating for pipes and manholes, crushed rock cradle, rungs, frame and cover for manholes, sheeting and shoring as required, backfilling, all in accordance with the plans and specifications.

151	751	Cu. Yds., Unclassified excavation for sewer lines, cradles and manholes, including backfill and manhole seals.		
		Per Cu. Yds.	\$	\$
152	1,215	Lin. Ft., 8" PVC pipe Per Lin. Ft.	\$	\$
153	1,092	Lin. Ft., 6" PVC pipe Per Lin. Ft.	\$	\$
154	30	Each, 8" x 6" PVC sewer pipe wye. Per Each	\$	\$
155	38	Each, 6" PVC sewer pipe 1/8 bend. Per Each	\$	\$
156	44	Each, 2" PVC Marker Per Each	\$	\$
157	44	Each, 6" x 4" Extra heavy cast iron soil pipe reducer with 4" T.C. Cap.	\$	\$
		Tot Euch	Ψ	Ψ
158	1,215	Lin. Ft., Crushed rock cradle for 8" sewer pipe. Per Lin. Ft.	\$	\$
159	1,092	Lin. Ft., Crushed rock cradle for 6" sewer pipe. Per Lin. Ft.	\$	\$
160	99	Lin. Ft., Plain concrete jacket for 6" sewer pipe. Per Lin. Ft.	\$	\$
161	40	Lin. Ft., Reinforced concrete jacket for 6" sewer pipe. Per Lin. Ft.	\$	\$
162	39	Lin. Ft., Reinforced concrete jacket for 8" sewer pipe. Per Lin. Ft.	\$	\$
163	8	Each, Reinforced concrete manhole base Per Each	\$	\$

164	8	Each, C.I. manhole frame and cover Per Each _ \$ \$
165	1	Each, Standard plain manhole, 6' - 6.99' Per Each _ \$ \$
166	4	Each, Standard plain manhole, 7' - 7.99' Per Each _ \$ \$
167	2	Each, Standard plain manhole, 8' - 8.99' Per Each _ \$ \$
168	1	Each, Standard plain manhole, 10' -10.99' Per Each _ \$ \$
169	1	Each, Adjust existing sewer manhole to grade Per Each _ \$ \$
170	L.S.	Connection new 8" sewer to existing SMH in Hihimanu Street at Station 3+52.96 Hihimanu Street, including excavation and backfilling. Lump Sum \$
171	L.S.	Connection of new SMH over existing 8" sewer in Poalima Street at Station 3+48.78 Road B, including excavation and backfilling.
172	4	Each, Double Wye
1/2	7	Per Each _ \$\$
		SUB-TOTAL FOR SEWER SYSTEM (Items 151 to 172 inclusive)

IX. WATER SYSTEM

The prices bid herein for the following items shall include furnishing all labor, equipment, tools materials and all incidental work necessary to construct the water system in place complete, including excavating for water lines and appurtenances, pipe cushion, backfilling, sheeting and shoring as required, all in accordance with the plans and specifications.

173	515	Cu. Yds., Unclassified excavation for water mains and appurtenances, including backfill and pipe cushion. Per Cu. Yds.	\$ \$
174	1,430	Lin. Ft., 8" Polyvinyl chloride pipe, C900, Class 150. Per Lin. Ft	\$ \$
175	80	Lin. Ft., 6" Polyvinyl chloride pipe, C900, Class 150. Per Lin. Ft.	\$ \$

						Page 24	
176	90	Lin. Ft., 4" Polyvinyl chloride pipe, C900, C					
			Per Lin. Ft.	\$		\$	
1.77	170	The District of St. 50					
177	170	Lin. Ft., 8" Ductile iron pipe., CL 52	D I E4	¢		ф	
			Per Lin. Ft.			\$	_
178	30	Lin. Ft., 4" Ductile iron pipe., CL 52					
170	30		Per Lin. Ft.	\$		\$	
							_
179	4,320	Lbs., Ductile Iron Fittings					
			Per Lb.	\$		\$	
		1 OF OROGO			225		
		1 - 8" CROSS			235		
		4 - 8" x 6" TEE, M.J. 3 - 8" 1/8 BEND, M.J.			700 330		
		25 - 8" 1/16 BEND, M.J.			2,750		
		2 - 8" 1/32 BEND, M.J.			220		
		1 - 6" 1/4 BEND, M.J.			85		
			TOTAL		4,320		
180	19	Each, Deflection coupling					
			Per Each	\$			_
101	4	Facility Office and the Class 150					
181	4	Each, 8" Gate valve, Class 150	Per Each	•		\$	
			I CI Lacii	Ψ		Ψ	_
182	4	Each, 6" Gate valve, Class 150					
		,	Per Each	\$		\$	
183	6	Each, 3/4" Air release valve including meter	box and				
		all appurtenances	Dan Eagle	¢		Ф	
			Per Each			\$	
184	1	Each, Fire Hydrant, 5.5' curb to invert					
101	1	Eden, The Hydram, 5.5 care to invert	Per Each	\$		\$	
							_
185	1	Each, Fire Hydrant, 4.5' curb to invert					
			Per Each	\$		\$	
106	2						
186	2	Each, Fire Hydrant, 4.0' curb to invert	Dan Eagle	¢		Ф	
			Per Each	<u> </u>		\$	_
187	78	Sq. Ft., 4" thick concrete slab for fire hydran	nt				
10,	, 0	sq. ru, rumen concrete state for the hydran	Per Sq. Ft.	\$		\$	
			1				_
188	16	Each, 1-1/2" Service lateral with Type C-1 s	ervice				
		connection.					
			Per Each	\$		\$	
190	12	Food 1" Carving lateral with Type A comice	•				
189	12	Each, 1" Service lateral with Type A service connection.	5				
		connection.	Per Each	\$		\$	
			. or Euch	Ψ		Ψ	_

190	44	Each, Type "X" meter box Per Each _ \$ \$
191	4	Each, Blue reflector FH pavement marker Per Each _ \$ \$
192	8	Each, Cast iron valve box & cover Per Each _ \$ \$
193	60	Cu. Yds., Class "B" concrete for reaction blocks, gate valve anchor blocks, etc.
194	1	Per Cu. Yd. \$ \$ Each, 4" Cap tapped for 2-1/2" I.P.T. w/ 2-1/2" Cleanout assembly & 1-1/2" lateral connection
		Per Each _ \$ \$
195	170	Lin. Ft., Reinforced concrete jacket for 8" water main Per Lin. Ft. \$ \$
196	30	Lin. Ft., Reinforced concrete jacket for 4" water main Per Lin. Ft. \$ \$
197	L.S.	Connect new 8" water main to existing 12" water main (Kakaina St.) Lump Sum
198	L.S.	Connect new 8" water main to existing 6" water main (Poalima St.) Lump Sum \$
199	L.S.	Chlorination and testing of the entire system Lump Sum \$
200	61	Each, Electronic markers Per Each _ \$ \$
201	4	Each, Adjust existing water lateral Per Each _ \$ \$
202	2	Each, Cut & plug existing lateral at main. Remove existing water meter, box, valve & cover. Abandon existing lateral in place.
		Per Each _ \$ \$
203	5	Each, Adjust existing water valve box to finish grade. Per Each _ \$ _ \$
		SUB-TOTAL FOR WATER SYSTEM (Items 173 to 203 inclusive)

X. SANDWICH ISLE COMMUNICATIONS

The prices bid herein for the following items shall include all labor, tools and equipment, materials except that to be supplied by Sandwich Isles Communications, Inc. (SIC), appurtenances and incidentals necessary to install or to construct the following items in place and complete in accordance with the drawings and specifications and standard practices of Sandwich Isles Communications, Inc., Hawaiian Telecom (HTCO), and the City & County of Honolulu Department of Public Works, and to the satisfaction of the DHHL.

204	62	Lin. Ft., Furnish and Install Two 1-Inch Direct Buried SIC Conduits - UD(2X1-1"). Work shall consist of excavation and providing 1" diameter conduits, with spacers, couplings and appurtenances, backfilled per SIC requirements, complete and in place. Per Lin. Ft.	\$ \$
205	1,070	Lin. Ft., Furnish and Install Two 1-Inch Concrete Encased SIC Conduits - UD(2X1-1")E. Work shall consist of excavation and providing 1" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per SIC requirements, complete and in place. Per Lin. Ft.	\$ \$
206	322	Lin. Ft., Furnish and Install Four Concrete Encased SIC Conduits - UD (2X2-1")E. Work shall consist of excavation and providing 1" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per SIC requirements, complete and in place. Per Lin. Ft.	\$ \$
207	56	Lin. Ft., Furnish and Install Six Concrete Encased SIC Conduits - UD (3X2-1")E. Work shall consist of excavation and providing 1" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per SIC requirements, complete and in place. Per Lin. Ft.	\$ \$
208	750	Lin. Ft., Furnish and Install Two 4-Inch Concrete Encased SIC Conduits - UD(1X2-4")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.	\$ \$

209	30	Lin. Ft., Furnish and Install Six 4-Inch Concrete Encased SIC Conduits - UD(3X2-4")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.	\$ \$
210	250	Lin. Ft., Furnish and Install Two 4-Inch & Two 1-Inch Concrete Encased SIC Conduits - UD(2X1-4") & UD(2X1-1")ED. Work shall consist of excavation and providing 4" and 1" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per SIC requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
211	112	Lin. Ft., Furnish and Install Two 4-Inch & Four 1-Inch Concrete Encased SIC Conduits - UD(2X1-4") & UD(2X2-1")ED. Work shall consist of excavation and providing 4" & 1" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per SIC requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
212	158	Lin. Ft., Furnish and Install Two 4-Inch & Six 1-Inch Concrete Encased SIC Conduits - UD(2X1-4") & UD(3X2-1")ED. Work shall consist of excavation and providing 4" & 1" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per SIC requirements, complete and in place.	
		Per Lin. Ft.	\$ \$
213	22	Lin. Ft., Furnish and Install Two 4-Inch & Eight 1-Inch Concrete Encased SIC Conduits - UD(2X1-4") & UD(4X2-1")ED. Work shall consist of excavation and providing 4" & 1" diameter conduits, with spacers, couplings, appurtenances, and concrete jacket, backfilled per SIC requirements, complete and in place.	
		Per Lin. Ft.	\$ \$

214	6	Each, Furnish and Install 13"x 24"x 36" Polymer Concrete Pullbox Type UHC 13x24x36 with 20K "traffic" rated polymer concrete covers, and cable racks, provided in accordance with SIC standard requirements, complete and in place.			
		Per Each	\$	_ \$	-
215	8	Each, Furnish and Install 30"x 48" x 33" Type UHC 30x48 Polymer Concrete Handhole with 20K "traffic" rated polymer concrete covers, and cable racks, provided in accordance with SIC standard requirements, complete and in place.	•	\$	
		Per Each	<u> </u>	_ \$	-
216	1	Each, Furnish and Install 3'-9"x 5'-9"x 4'-2.5" Type UH 3x5 Reinforced Concrete Handhole, with two piece hinged traffic rated covers, and cable racks, provided in accordance with SIC standard requirements, complete and in place.			
		Per Each	\$	\$	_
217	1	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.			
		Per Each	\$	\$	_
218	1	Each, Furnish and Install Underground Manhole Rearrangement Unit(W-UM). Place new ducts into existing manhole using available knock out or core drilling side wall. Contractor to provide bell ends and duct plugs. Contractor shall patch manhole and backfill per SIC specifications. Location of entering conduit will be determined by project manager at time of construction.			
		Per Each	\$	\$	_
219	22	Lin. Ft., Furnish and Install One 4-Inch Direct Buried HTCO Conduit. Work shall consist of excavation and providing 4" diameter conduit, with spacers, couplings, and appurtenances, backfilled per HTCO requirements, complete and in place.			
			\$	\$	-

220	1	HTCO Pullbox with two piece steel "slip-not" grip or polymer "non-skid" covers and ground rod, provided in accordance with HTCO standard drawing No. 34056. A minimum of two precast concrete pullbox sections shall be required at each pullbox.	steel "slip-not" grip or ground rod, provided dard drawing No. cast concrete pullbox
		Per Each\$\$	Per Each \$ \$
221	1	Each, Furnish and Install 4" HTCO Conduit Risers. Provide conduit risers up utility pole per HTCO requirements, complete and in place.	pole per HTCO
		Per Each _ \$\$	Per Each \$ \$
		SUB-TOTAL FOR SANDWICH ISLES \$	CH ISLES \$
		COMMUNICATIONS	
		(Items 204 to 221 inclusive)	

RECAPITULATION

DHHL Work		
I. Mass Grading (Items 1 to 17, inclusive)	\$	
II. Roadways (Items 18 to 42, inclusive)	\$	
III. Drainage System (Items 43 to 70, inclusive)	\$	
IV. Traffic (Items 71 to 84, inclusive)	\$	
VI. Landscaping (Items 85 to 90, inclusive)	\$	
VII. Electrical (Items 91 to 119 inclusive)	\$	
VIII. Hihimanu Street 20-Inch Water Main Relocation (Items 120 to 150, inclusive)	\$	
TOTAL DHHL WORK		\$
Na Kupaa Work		
VIII. Sewer System (Items 151 to 172, inclusive)	\$	
IX. Water System (Items 173 to 203, inclusive)	\$	
TOTAL NA KUPAA WORK		\$
Sandwich Isles Communications, Inc. Work		
Section X. (Items 204 to 221, inclusive)	\$	
TOTAL SUM BID		\$

Unit Prices have been computed in accordance with paragraph 11.03.B of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the contract Documents.

ARTICLE 6 - TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with paragraph 4.02 of the Agreement Between Owner and Contractor for Construction Contract and Section SC-03 of the DHHL Special Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damage.

ARTICLE 7 - ATTACHMENTS TO THIS BID

- 7.01 The following documents are attached to and made a condition of the Bid:
 - A. Required Bid security in the form of a Bid Bond (EJCDC No. C-430) or Certified Check (circle type of security provided);
 - B. List of Joint Contractors or Subcontractors;
 - C. Hawaii Products Preference schedule.
 - D. If applicable, Certification Form 1 verifying the participation in an apprenticeship program registered with the State Department of Labor and Industrial Relations (DLIR).
 - E. Tax Clearance Certificate from State Department of Taxation and Internal Revenue Service.
 - F. If Bid amount exceeds \$10,000, signed Compliance Statement (RD 400-6). Refer to specific equal opportunity requirements set forth in paragraph 18.10 of the General Conditions;
 - G. If Bid amount exceeds \$25,000, signed Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions (AD-1048);
 - H. If Bid amount exceeds \$100,000, signed RD Instruction 1940-Q, Exhibit A-1, Certification for Contracts, Grants, and Loans.

ARTICLE 8 - DEFINED TERMS

8.01 The terms used in this Bid with the initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 - BID SUBMITTAL

9.0	1 This Bid is submitted by:
*	
Exa	act Legal Name of Company (Bidder)
The	Bidder represents that it is: (Check $\sqrt{\text{one only}}$)
	A Hawaii business incorporated or organized under the laws of the State of Hawaii; OR
	A Compliant Non-Hawaii business <u>not</u> incorporated or organized under the laws of the State of Hawaii, is or shall be registered at the State of Hawaii Department of Commerce and Consumer Affairs Business Registration Division (DCCA-BREG) to do business in the State of Hawaii.
	State of incorporation:
Bid	der is:
	Sole Proprietor Partnership Corporation Joint Venture Other:
Fed	eral I.D. No.: Hawaii General Excise Tax ID No.:
Stat	te Contractor License No
Bus	siness address
	(Street Address, City, State, Zip Code)
Pay	ment address (other than street address above)
	(Street Address, City, State, Zip Code)
Tel	ephone No.: () Fax No.: () E-Mail address:

If Bidder is:

An Individual

Name (typed or printed):	oer ie,
By:	if required by State
(Individual's signature)	
Doing business as:	
<u>Partnership</u>	
Partnership Name:	SEAL, if required
By: (Signature of general partner attach evidence of author	by State
(Signature of general partner attach evidence of damor	ily to sign)
Name (typed or printed):	
<u>Corporation</u>	
Corporation Name:	
State or Jurisdiction of Incorporation:	
Type (General Business, Profession, Service, Limited Liability):	
By:	
(Signature attach evidence of authority to sign	n)
Name (typed or printed):	
Title:	CORPORATE SEAL,
Attest	if required by Stat
(Signature of Corporate Secretary)	•
Date of Qualification to do business in [State or or	other jurisdiction who
Project is located] is/	

A Joint Venture

First Joint Venture Name:	SEAL, if required
Ву:	by State
By: (Signature of joint venture partner attach evidence of authority to sign)	
Name (typed or printed):	
Γitle:	
Second Joint Venture Name:	SEAL, if required by State
Bv:	
By:	
Name (typed or printed):	
Γitle:	
Each joint venturer must sign. The manner of signing for each individual, pareorporation that is party to the venture should be in the manner indicated above	
Phone and FAX Numbers, and Address for receipt of official communications from Business contact information:	, if differ

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 proposal 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	License	Nature and Scope of Work
for Total Sum Bid	Number	to be Performed

(Add additional sheets if necessary)

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., February 23, 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., February 29, 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

Aggregates –	Aggregates – Basaltic Termite Barrier								
Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai		
	11/03/09		Ameron International Corporation	X	X				
Aggregates a Product Subcategory as applicable	Subcategory 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			X			
	01/28/10		Goodfellow Bros., Inc.	X					

11/02/09		Grace Pacific	X		X	X
4/26/11		GW Construction			X	
11/03/09		Hawaiian Cement	X	X		
12/15/09		Jas. W. Glover, Ltd.			X	X
06/30/10		Kauai Aggregates				X
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	X		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	X	X	X	X
	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.	X	X	X	X
	12/15/09		Glover Honsador				X
	11/03/09		Hawaiian Cement	X	X		
	12/15/09		Jas. W. Glover, Ltd.			X	X
	12/15/09		Kohala Coast Concrete & Precast LLC			X	
	06/30/10		O. Thronas, Inc.				X
	11/05/09		Tileco, Inc.	X	X	X	X
	11/03/09		West Hawaii Concrete			X	

Product Subcategory	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
as applicable	Date	Date	1/24/24/2004/01				
	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.	X	X	X	X
Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kaua
	11/20/09		Environmental Waste Management Systems, Inc.	X	X	X	X
Septic Tanks	11/03/09		Ameron International Corporation	X			
	11/05/09	02/26/10	Walker Industries, Ltd.	X	X	X	X
Product Subcategory as applicable	Effective Date	Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kauai
us applicable	03/03/10		Universal Associates, Inc.	X			
Pipes-Alumin Product Subcategory as applicable	num and Ga Effective Date	Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kaua
Pipes-	11/03/09		Ameron International Corporation	X			
Miscellaneo us					l		
Miscellaneo us	ocks, Float	ing, etc N	Iiscellaneous				
Miscellaneo	ocks, Float Effective	ing, etc M	Aiscellaneous Manufacturer	Oahu	Maui	Hawaii	Kaua

Playground S	Surfaces						
Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
	01/07/10		Innovative Playgrounds and Recreation, Inc.	X	X	X	X
Signs - Traff	ic, Regulato	ory and Co	nstruction				
Product							
Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
us apparente	12/14/09		GP Roadway Solutions, Inc.	X	X	X	X
	11/20/09		Safety Systems Hawaii, Inc.	X	X	X	X
Product Subcategory as applicable	Effective	Revised	Manufacturer	Oahu	Maui	Hawaii	Kauai
из иррпсиоте	11/14/11		Big Rock Manufacturing	Х	х	X	X
Soil Amendn	nents, Mulc	h, Compos					
Product Subcategory as applicable	Effective Date	Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kauai
	10/16/09		Kauai Nursery & Landscaping, Inc.	X	X	X	X
	10/20/09		Sanford's Service Center, Inc.			X	
Compost Filt	ter						
Product Subcategory as applicable	Effective Date	Revised Date	Manufacturer	Oahu	Maui	Hawaii	Kauai
	01/25/10		EnviroTech BioSolutions Hawaii, Inc.	X	X	X	X
	6/02/11		Certified Erosion Control Hawaii LLC	X	X	X	X

DESIGNATION OF HAWAII PRODUCTS TO BE USED						
Description	Manufacturer	Cost FOB Jobsite, Unloaded Including Applicable General Excise and Use Taxes				
Description	ivianuracturei	LACISC and USC Taxes				
		¢				
		\$				
		\$				
		\$				
		\$				
		\$				
		\$				
		\$				
		\$				
		\$				
		\$				
		\$				

(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.

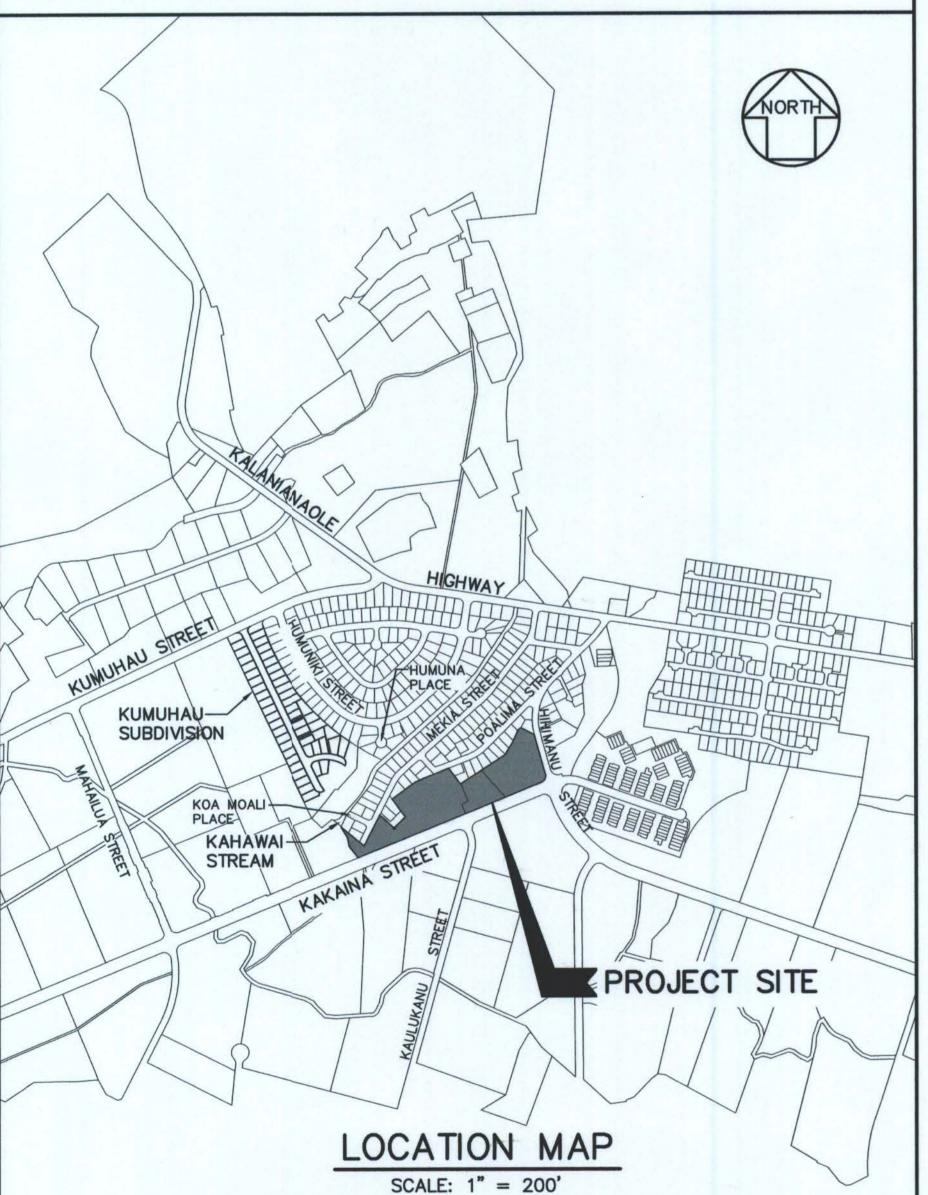
It is further understood by the Bidder that if upon being granted Hawaii Products, and being awarded the contract, if the Bidder fails to use such products or meet the requirements of such preference, the Bidder shall be subject to penalties, if applicable.

APPRENTICESHIP AGREEMENTS

Section 103-55.6, Hawaii Revised Statutes (HRS), was added by Act 17 (Special Legislative Session 1, 2009), and provides the 5% bid adjustment for bidders that are parties to apprenticeship agreements. To be eligible for the preference, the bidder shall:

- 1. State the trades the bidder will employ to perform the work.
- 2. For each trade to be employed to perform the work, the bidder shall submit a completed signed original *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.
- 4. The completed *Certification Form 1* for each trade must be submitted by the bidder with the proposal. Previous certifications shall not apply.

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



STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS

KAKAINA SUBDIVISION

DEVELOPED UNDER THE HAWAIIAN HOMES COMMISSION ACT WAIMANALO, KOOLAUPOKO, OAHU, HAWAII

> TAX MAP KEY: 4-1-08: 10, 81, 91 & 92 (SUB'D. FILE NO. 2011/SUB-23)

> > PREPARED BY AKINAKA & ASSOCIATES, LTD. CONSULTING ENGINEERS HONOLULU, HAWAII

APPROVED:

CHAIRMAN, DEPARTMENT OF HAWAIIAN HOME LANDS STATE OF HAWAII	DATE
DIRECTOR, DEPARTMENT OF PLANNING AND PERMITTING CITY & COUNTY OF HONOLULU	DATE
MANAGER AND CHIEF ENGINEER, BOARD OF WATER SUPPLY (FOR WORK AFFECTING BWS FACILITIES IN CITY/STATE R/W AND BWS EASEMENTS ONLY) CITY & COUNTY OF HONOLULU	DATE
CHIEF, ENVIRONMENTAL MANAGEMENT DIVISION, DEPARTMENT OF HEALTH STATE OF HAWAII	DATE

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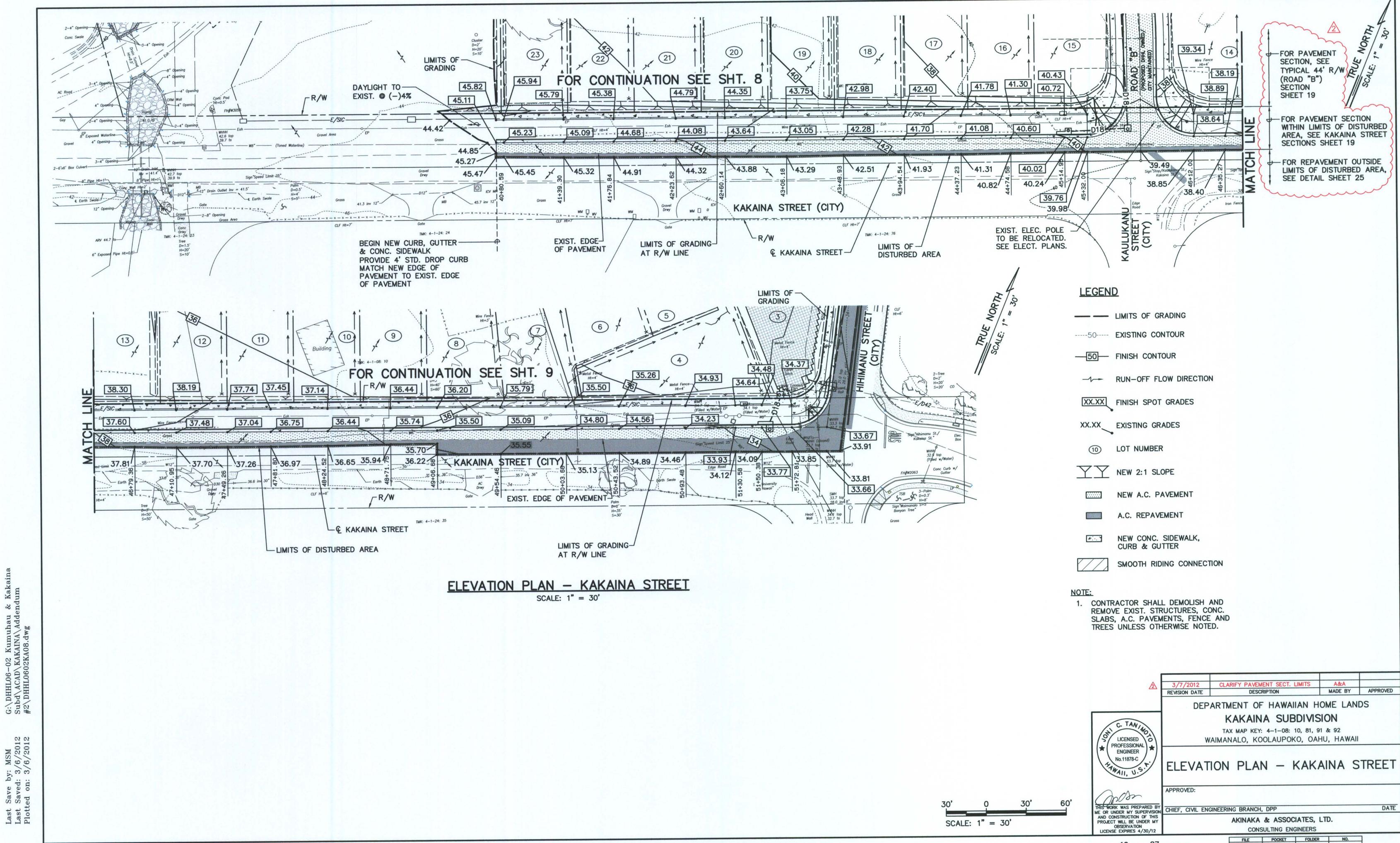
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DESCRIPTION

ADDENDUM #2 MARCH 7, 2012

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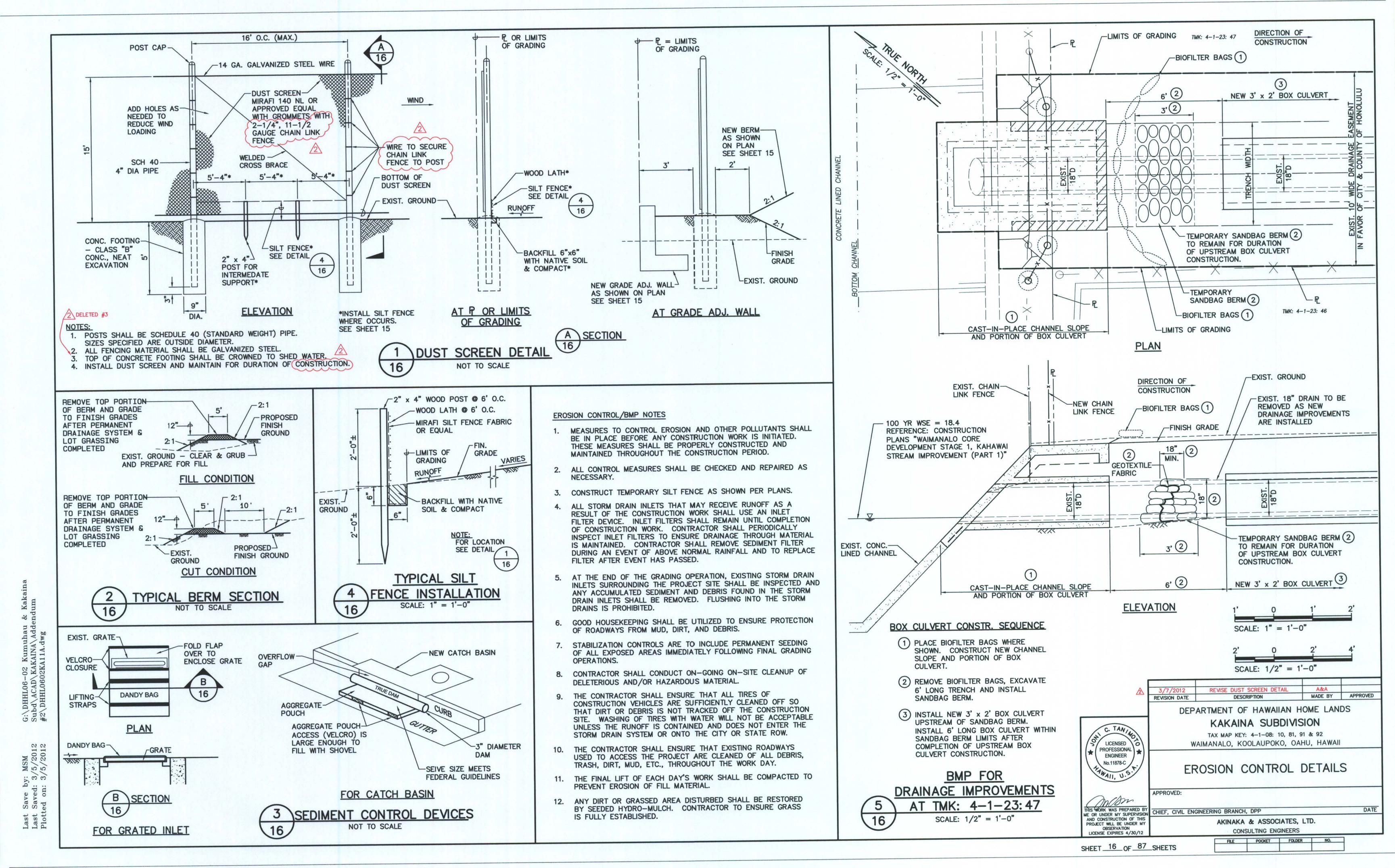


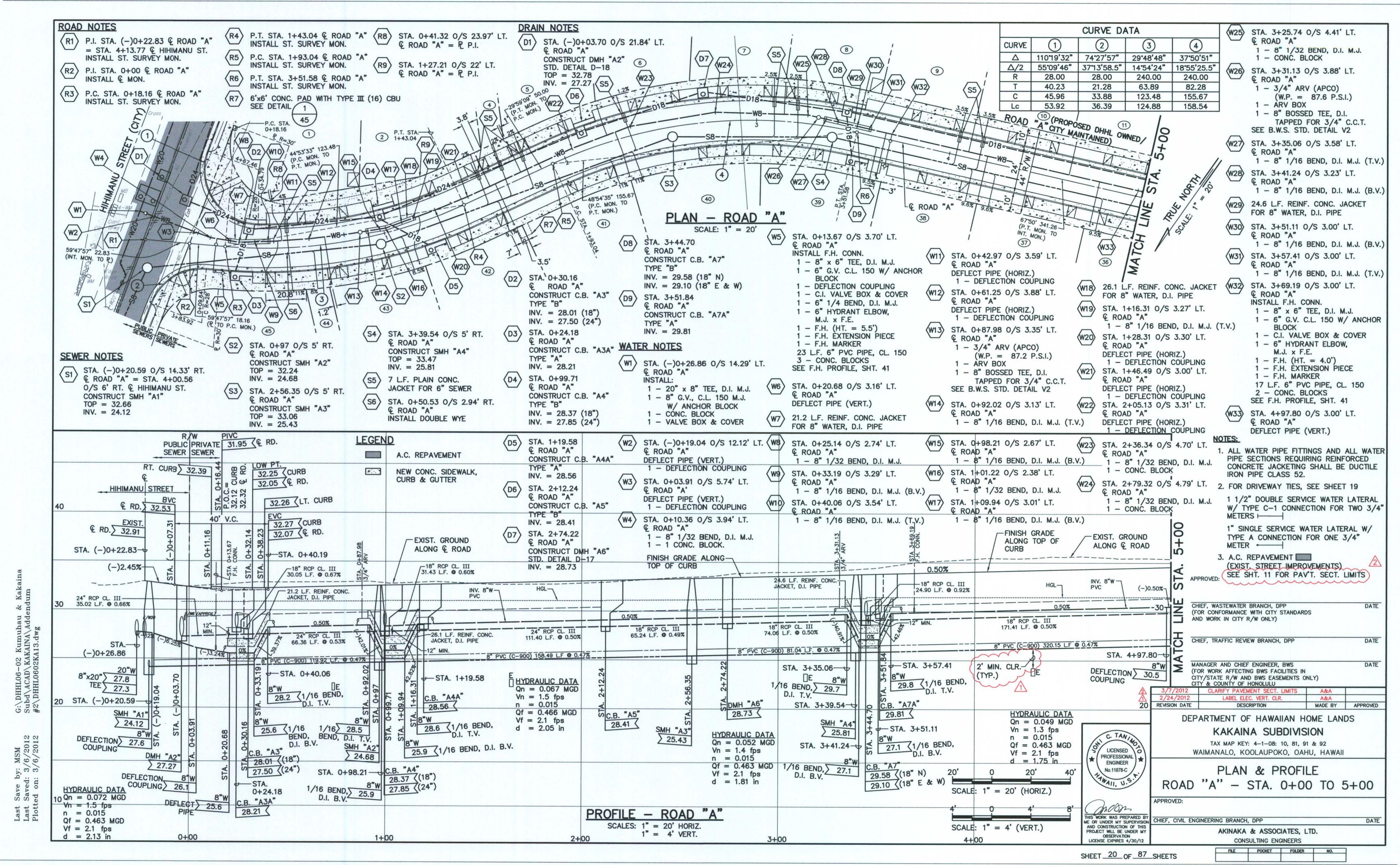
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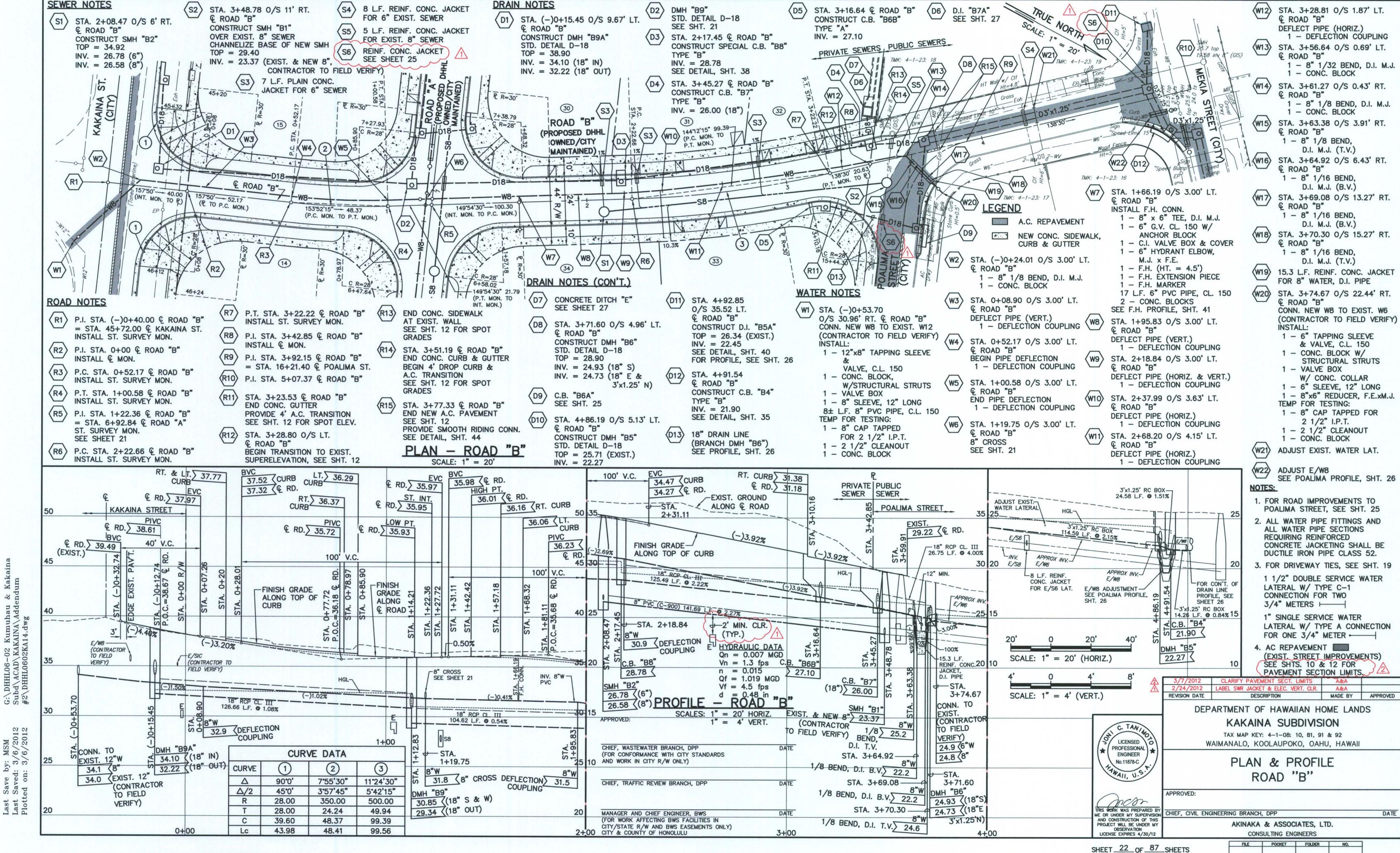
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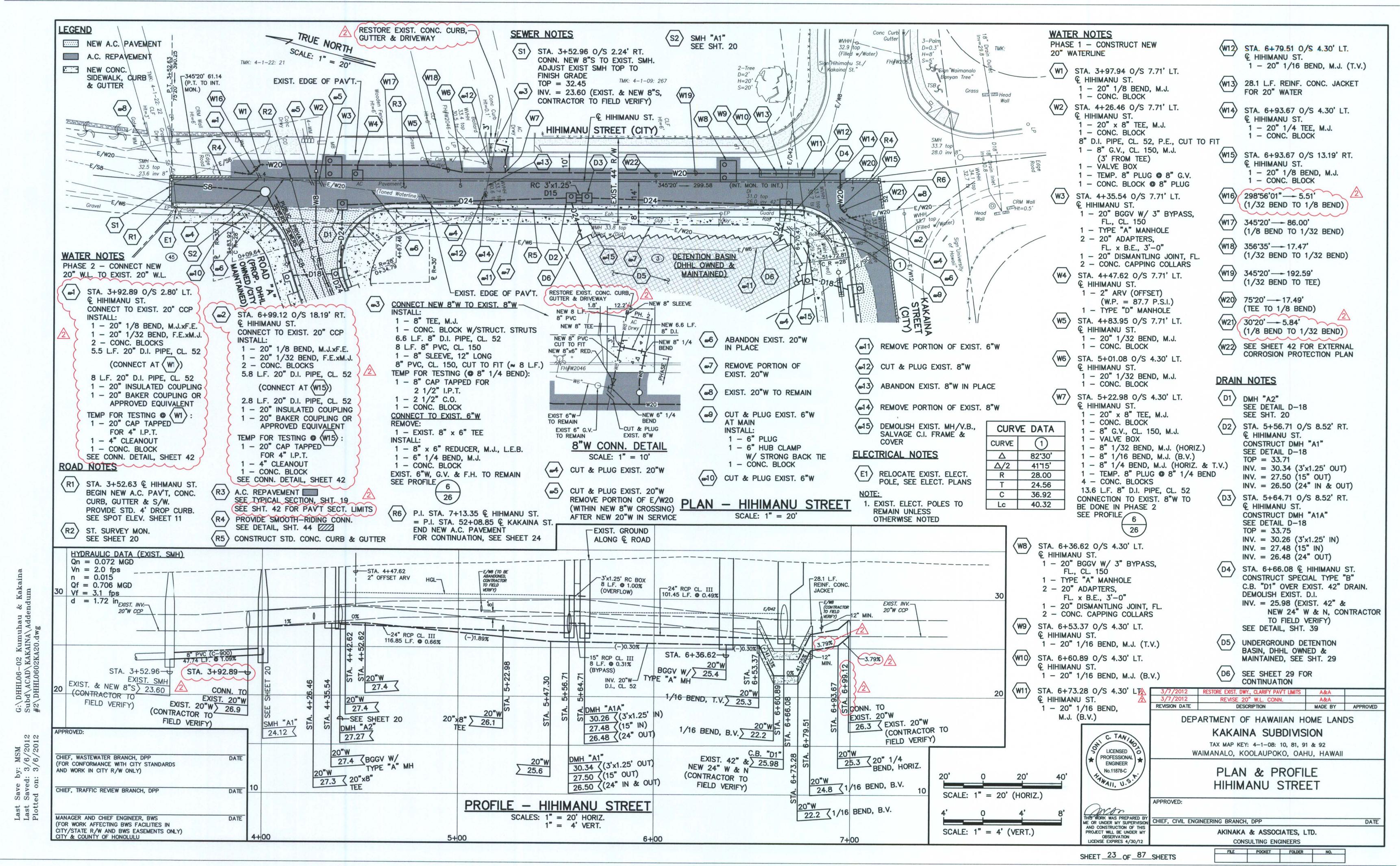
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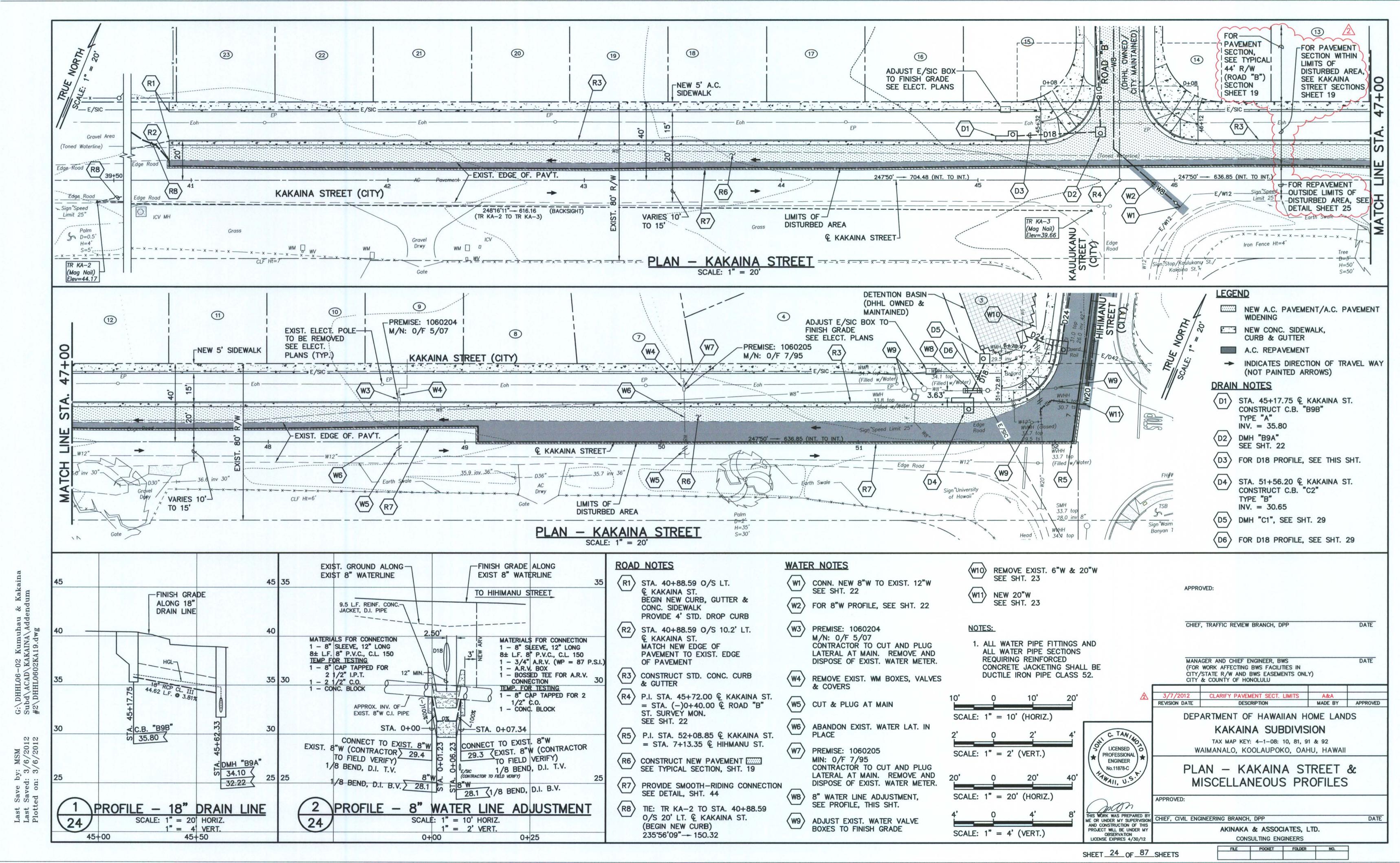


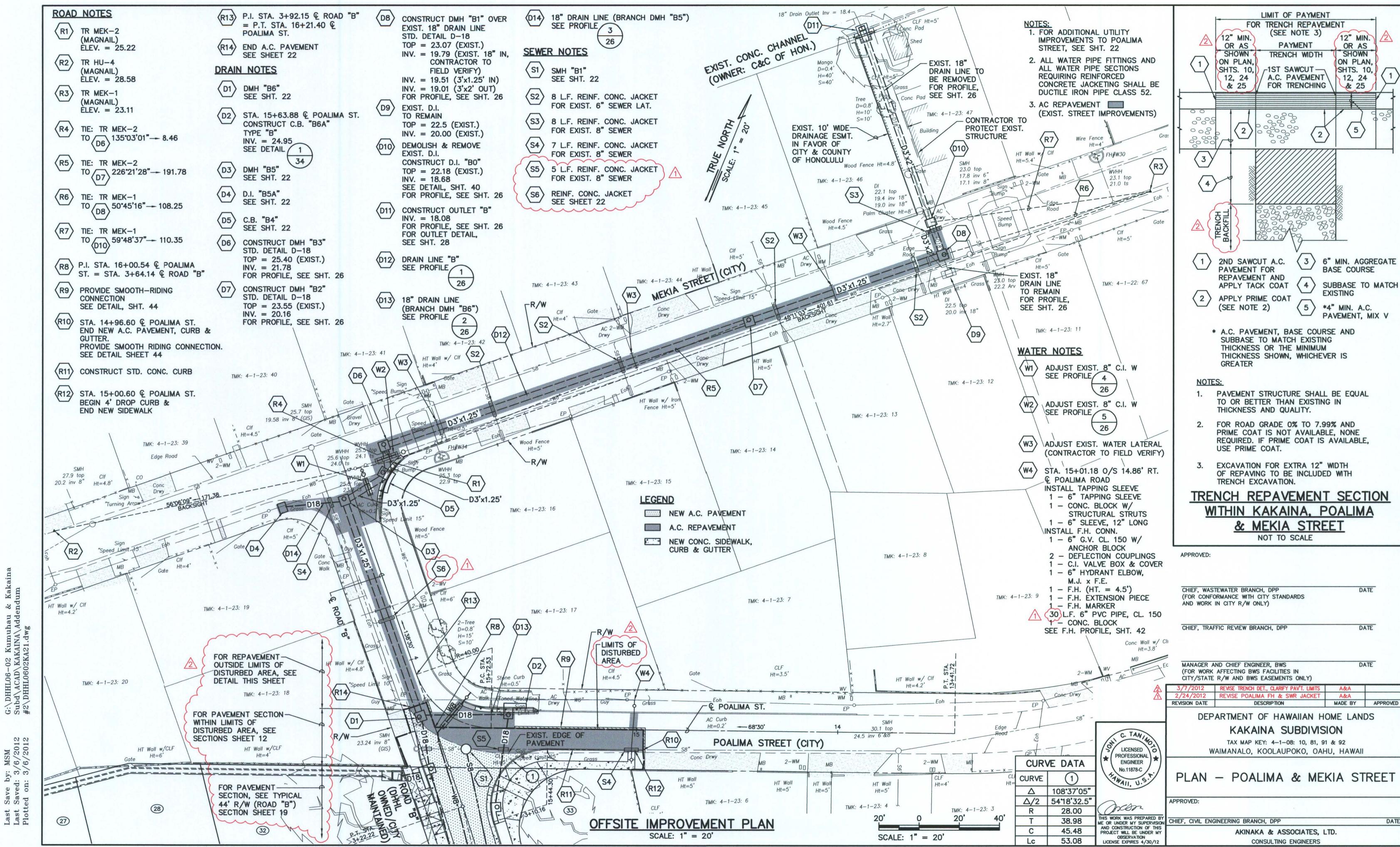




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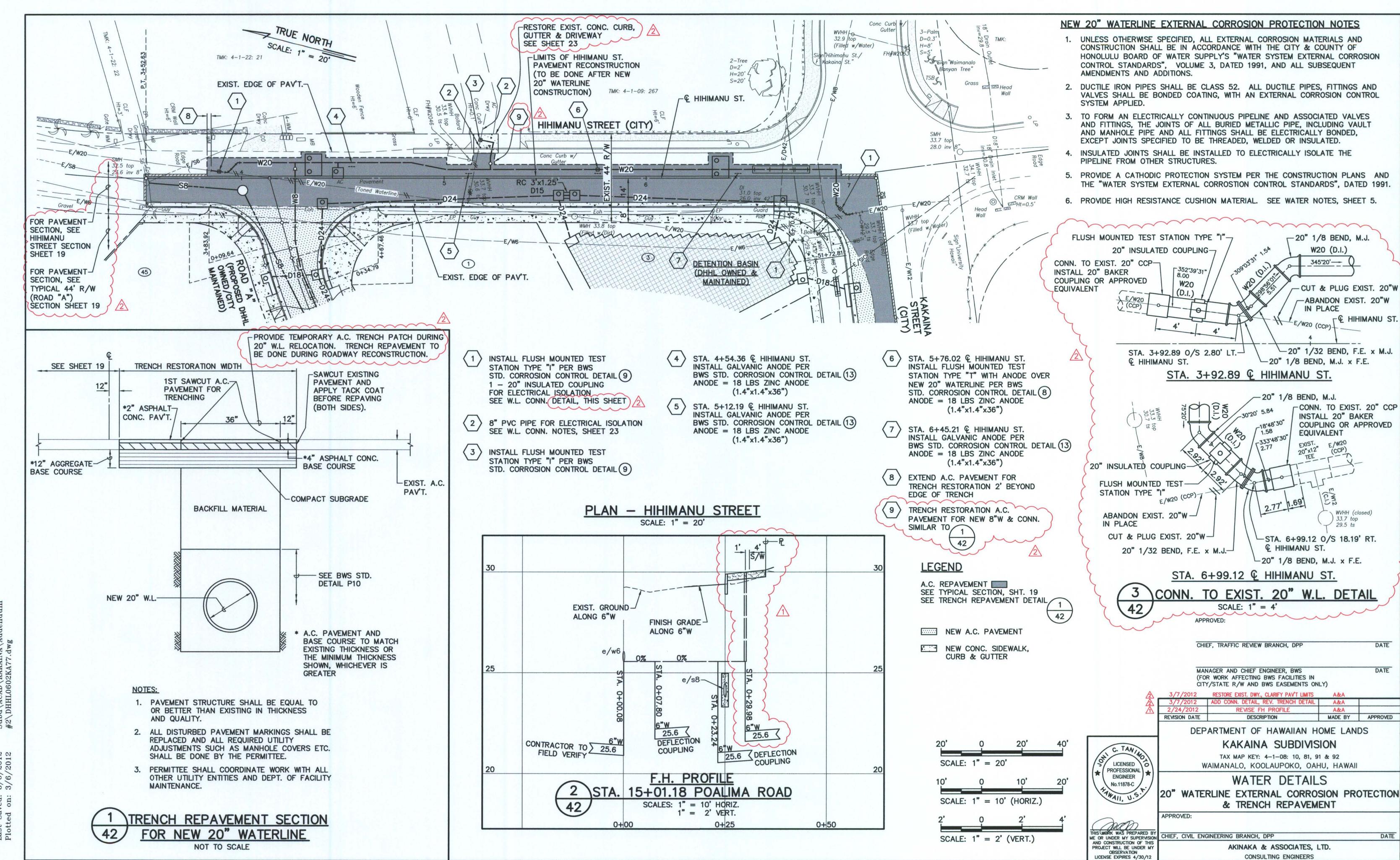






SHEET 25 OF 87 SHEETS

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