

DEPARTMENT OF HAWAIIAN HOME LANDS
STATE OF HAWAII

JUNE 5, 2012

ADDENDUM NO. 1

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:



Date: June 5, 2012



Jobie M. K. Masagatani, Chairman Designate
Hawaiian Homes Commission

Please detach, execute, and return immediately, the receipt below, to the Department of Hawaiian Home Lands, P. O. Box 1879, Honolulu, HI 96805, or by facsimile to 620-9299.

Receipt of Addendum No. 1 for EAST KAPOLEI II DEVELOPMENT, ROAD E EXTENSION, HONOULIULI, EWA, OAHU, HAWAII, is hereby acknowledged.

Signed _____

Title _____

Firm _____

Date _____

ADDENDUM NO. 1

June 05, 2012

To Plans, Bid Form, Specifications, Contract and Bond Documents

for

East Kapolei II Development Road “E” Extension

Honouliuli, Ewa, Island of Oahu, Hawaii

IFB No.: IFB-12-HHL-004

ITEM NO. 1 PRE-BID MEETING MINUTES AND ADDITIONAL QUESTIONS

1. A mandatory Pre-bid meeting was held at the Department of Hawaiian Home Lands on May 22, 2012 including a site visit. Attached are the meeting minutes and the meeting attendance sheet along with the responses to additional questions.

ITEM NO. 2 TECHNICAL SPECIFICATIONS

1. Section 02230 – Fine Grading of Roadway Prism. Replace page 02230-2 with the attached Addendum No. 1 page 02230-2. A change has been made to Section 2.01 – Materials. Item B, Select Granular Fill (Capping Fill) has been deleted in its entirety.

ITEM NO. 3 CONTRACTOR’S SUBMITTAL – BID OFFER FORM

Road Construction

1. Replace pages 1 through 5 of the Bid Offer Form with the attached Addendum No. 1 pages 1 through 5. The following changes have been made to pages 4 and 5:
 - a. Item 13, 11” and 12” aggregate subbase course under pavement, has been revised to state 11” and 12” **aggregate base course** under pavement.
 - b. Item 16, 6” thick Class “A” concrete driveway apron. The estimated quantity has been changed to “**3,022**” from 2,932.
 - c. Item 17, Class “B” concrete sidewalk. The estimated quantity has been changed to “**38,600**” from 38,690.

ITEM NO. 4 CONSTRUCTION DRAWINGS

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

DWG. NO.	ITEM NO.	GENERAL DESCRIPTION OF REVISION
C-4		GENERAL LAYOUT PLAN
	1	Revised property line between HECO Lot 5 and Remainder Lot 4.
	2	Revised driveway Road "A" Sta. 20+56 to Sta. 20+63 from 24' to 30'.
C-5		EROSION CONTROL PLAN
	1	Revised property line between HECO Lot 5 and Remainder Lot 4.
C-10		PLAN AND PROFILE ROAD "A"
	1	Revised property line between HECO Lot 5 and Remainder Lot 4.
	2	Revised driveway Road "A" Sta. 20+56 to Sta. 20+63 from 24' to 30'.
C-21		TRAFFIC SIGNS AND PAVEMENT MARKING PLAN - 1
	1	Revised property line between HECO Lot 5 and Remainder Lot 4.
	2	Revised driveway Road "A" Sta. 20+56 to Sta. 20+63 from 24' to 30'.

**East Kapolei II Development, Road “E” Extension
Pre-Bid Informational Conference Meeting Minutes
May 22, 2012
DHHL Annex Building**

1. Attendance sheet was passed around and a copy is attached.
2. Introductions:
 - a. Darrell Ing, Department of Hawaiian Home Lands
 - b. Sam Silva, Community Planning and Engineering, Inc.
 - c. Frank Camacho, Community Planning and Engineering, Inc.
 - d. PSC Consultants – Not present
 - e. Rodney Kaulupali – Sandwich Isles Communication
3. Scope of Work
 - a. Construction of approximately 2,300 lineal feet of 70-foot wide Road “E” Extension and approximately 650 lineal feet of the 78-foot wide Road “A” within the DHHL East Kapolei II Master Planned Community.
 - b. Single bid process resulting in two contracts:
 - i. DHHL consisting of mass grading, roadway, drainage system, traffic control, and exterior electrical work.
 - ii. Sandwich Isle Communication (“SIC”) Work consisting of telecommunications infrastructure work.
4. General Requirements
 - a. Attendance at the pre-bid meeting is mandatory to be eligible to bid for the project.
 - b. The DHHL portion of the project is exempt from the General Excise Tax.
 - c. This project will be subject to Department of Labor and Industrial Relations prevailing wages and salaries.
 - d. Section 103D-310 HRS
 - i. After bid opening, DHHL will verify compliance through Hawaii Compliance Express.
 - ii. If not registered, the Contractor must submit the following documents:
 1. Form A-6 Tax Clearance Certificate (for Contractor and Sub-contractors)
 2. Certificate of Compliance from Dept. of Labor and Industrial Relations
 3. Certificate of Good Standing from Dept. of Commerce and Consumer Affairs
 - e. Section 103-55.6 HRS – Apprenticeship Agreement Preference is applicable to this project.
 - f. Chapter 103B HRS (Employment of State Residents) – DHHL will be requiring that Hawaii residents comprise of no less than eighty percent of the workforce for this project.
 - g. Substitution Requests – Submit request to Darrell Ing.
 - h. Completion Schedule and Liquidated Damages

- i. Time to complete: 360 calendar days; “SIC” still to determine completion time for “SIC” portion.
- ii. Liquidated damages (DHHL Work): \$850 per calendar day
- iii. Liquidated damages (SIC Work): \$750 per calendar day

5. Staging Area

- a. The staging area is located at Lot 2-A (future middle school site) or Lot 4 (future elementary school site).

6. Engineer Comments

- a. The roadways for the Road E extension and portion of Road A are already at subgrade.
- b. Be aware of bulb outs.
- c. Technical Specifications - Fine Grading of Roadway Prism 2.01 B will be deleted in its entirety.
- d. The driveway apron to the future Hawaiian Electric Company (HECO) lot will be 30 feet wide instead of 24 feet. Revised plans are currently with city for approval.
- e. The future subdivision lots located in the East Kapolei II Mass Grading site need to be maintained. The lots have been capped with coral.

7. Deadlines

- a. Substitution/Hawaii Product Preferences Requests – Wednesday, May 30, 2012, 4:30 pm
- b. Intent to Bid – Friday, June 1, 2012, 4:30 pm
- c. Standard of Qualification Questionnaire – Friday, June 1, 2012, 2:00 pm.
Submittals from previous projects are not valid. Submit new questionnaire for each new DHHL project.
- d. Bid submittal/opening – Wednesday, June 13, 2012, 2:00 pm.
Deliver to Hale Kalanianaʻole, 91-5420 Kapolei Parkway, Kapolei, HI.

8. Questions and Answers

- a. There is currently only one source for reinforced concrete pipes (RCP). Can high-density polyethylene (HDPE) pipes be used instead of reinforced concrete pipes (RCP)?

No.

- b. Was the subgrade elevation shown on the as-built drawings for the East Kapolei II Mass Grading Portion of Lot 6-A project?

Yes.

- c. Is existing subgrade material for the roadway, suitable subgrade material?

Yes.

- d. Is this a lump sum contract?

Yes, this will be a lump sum contract per line item.

- e. What if there are items missing from the proposal?
The contractor will be responsible for their own takeoffs. Contractor to send a request for clarification to DHHL.
 - f. Who will be providing the geotechnical services?
The geotechnical services will be provided by the owner. PSC Consultants is the owner's consultant.
 - g. What is the tentative notice to proceed date?
The project is scheduled to begin in mid to late August 2012.
 - h. Will this project be phased?
No. The project will be constructed in one phase.
 - i. Are the construction drawings approved?
Yes, the construction drawings are approved. CPE is still waiting for the approved National Pollutant Discharge Elimination Permit (NPDES) permit. The permit application has been submitted to the Department of Health.
 - j. Is there a designated stockpile area for this project?
No.
 - k. Are the roadways capped with coral?
No.
 - l. Who is responsible for any excess material?
The Contractor is responsible.
9. Site Inspection
- a. What is the nearest source of water?
Hydrants on Road E near Kroc Center driveway and East-West Road are available as nearest water source.
 - b. Is non-potable water available through the farm?
Contractors for other projects in the area have been denied by Aloun Farms.

Pre-Bid Conference
East Kapolei II, Road E Extension

Name	Company/Agency	Telephone/Fax	e-mail
Cheryl Mann	Goodfellow Bros., Inc.	676-1523	connanp@goodfellowbros.com
Loke Leong	Royal Contracting	839-9006 / 839-7571	lke@royalcontracting.com
Nilton Hattusuka	Ideal Const.	848-0502 847-7010	nhattusuko@yahoo.com
RAY HIGA	PBR HAWAII	521 5031 523 4020	rhiga@pbrhawaii.com
SAM SILVA	CPE	531-4252 x1019	ssilva@cpe-hawaii.com
FRANK CAMACHO	CPE	531 4252 x1040	fcamacho@cpe-hawaii.com
James LANGSTON	MID-STATE CONSULTANTS (SEC)	585-6188	JLANGSTON@MIDSCON.COM
Rodney Kaulupali	SIC	540-5751	rodneyk@sandwichisles.com
ALIK MILLER	DELTA CONSTRUCTION	478-7751	amiller@deltaconstruction.com

Pre-Bid Conference
East Kapolei II, Road E Extension

Name	Company/Agency	Telephone/Fax	e-mail
Sam P. Laborador	CPE	542-7424	claborador@spe-hawaii.com
Roslyn Gabaylo	Horon Const.	456-2069	horon@hawaii.rr.com
Lisa Takushi	CPE	227-3022	ltakushi@spe-hawaii.com
Dennis Condon	PAVE-TECH	760-729-7592	MANUFACTURE PAVE-TECH.COM
Alex Kwan	Paradigm Construction	847-1646 / 847-1647	alex@paradigmhi.com
Kurtis Beu	CPE	864-8073	Kbeu@CPE-Hawaii.com
Henry Silva	Henry's equipment.	694-2879	henrysegool@hawaii.rr.com

ADDITIONAL QUESTIONS

Email dated May 29, 2012

1. Is DHHL already in the application process for the NPDES permit for this project or is there already a permit in place?

Response: Question was answered under the Pre-Bid Meeting Minutes.

2. It is our understanding the Mass Grading for this phase was previously completed? Is this understanding correct?

Response: Question was answered under the Pre-Bid Meeting Minutes.

3. Does DHHL wish to keep any excess earth materials excavated from this phase of the development within the boundary of the greater development area for later use on future phases?

Response: Question was answered under the Pre-Bid Meeting Minutes.

Email dated June 01, 2012

1. Can an HDPE equivalent pipe be used in-lieu of RCP for the smaller diameter storm pipe?

Response: Question was answered under the Pre-Bid Meeting Minutes.

2. The cross-sections depicted on sheet C-6 indicate an aggregate “base” section varying in thickness from 11-inches to 12-inches under the AC roadway surface? Bid item 13 call the aggregate “subbase”? Is there a difference between “Base” and “Subbase” aggregate material?

Response: Bid item 13 has been revised to state “aggregate base course.”

3. The construction work will need water for dust control and compaction? Can we plan to use one of the hydrants within the completed portions of the development?

Response: Question was answered during the Pre-Bid meeting minutes.

4. We noticed there is a contractor onsite using a hydrant connection currently? Is there a cost for using the hydrant? Or is this a BWS hydrant with the standard construction use requirements?

Response: This is a BWS hydrant. Consultation with BWS is required before hydrant use.

5. There are several stockpiles of “coral” material onsite? Can these piles be used in the construction of this phase of the project?

Response: No. The coral material is accounted for by a different project.

6. There is a very large stockpile of material at the end of the “E” street extension? And there is a crushing operation currently in process? Can we assume a similar opportunity will be available for the successful low bidder?

Response: The stockpile at the end of the Road “E” Extension will not be available for use for this project.

Without limiting the generality or applicability of other indemnity provisions of the contract, the Contractor agrees that he shall indemnify and hold harmless the Department from and against all suits, actions, claims, demands, damages, costs and expenses (including but not limited to attorney's fees) arising out of any damage to any property whatsoever or injury to any person whomsoever, in any way caused or contributed to by dust from the Contractor's operations.

- A. Existing Utilities and Work Areas: The Contractor shall be responsible for the protection of existing surface and subsurface utilities and poles within and abutting the project site, trench excavations and other work areas.
- B. Finished Grades and Subgrades: All subgrades shall be kept moist until covered by subbase, base course, or concrete. All finished grades shall be kept moist until covered by landscaping or other permanent groundcover. Where shrinkage cracks are noted after compaction of the subgrade or finished grade, the subgrade or finished grade shall be rescarified, moisture-conditioned to above the optimum moisture content, and recompacted to the specified requirement at no additional cost to the Department. During construction, the Contractor shall properly grade and maintain all excavated surfaces to provide positive drainage and prevent ponding of water. In the event that ponding of water causes softening of the subgrades, the Contractor shall remove the soft soils and shall backfill the excavation with compacted fill at no additional cost to the Department.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. General Fill: On-site material excavated from within the project limits and meeting the requirements for embankment may be utilized as fills unless otherwise recommended by the Geotechnical Engineer during construction.
- ~~B. Select Granular Fill (Capping Fill): Select granular fill required below roadways shall consist of non-expansive, select granular material, crushed coral to be consistent with the material installed under the separate mass grading contract. The material shall be well-graded from coarse to fine with no particles larger than 3 inches in largest dimension. It shall also contain between 10 and 30 percent particles passing the No. 200 sieve. The material shall have a laboratory CBR value of 25 or higher and a swell potential of 1 percent or less when tested in accordance with ASTM Test Designation D1883. If available, coralline material processed from the designated borrow site may be used. Free-draining materials and highly permeable materials shall not be used as select granular fill. Select granular fill material shall be tested by the Geotechnical Engineer for conformance with these requirements prior to delivery to the project site for the intended use.~~

**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

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 hereby 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: _____

The undersigned represents that it is: **(Check ✓ one only)**

- A **Hawaii business** incorporated or organized under the laws of the State of Hawaii; **OR**
- A **Compliant Non-Hawaii business** not 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: _____

Offeror is:

- Sole Proprietor Partnership Corporation 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 Address, City, State, Zip Code)

Business address

(Street Address, 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" of a corporation, furnish the exact legal name of the corporation under which the awarded contract will be executed:

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

Item No.	Estimated Quantity	Description	Unit Price	Total
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PART 1 – EAST KAPOLEI II DEVELOPMENT, ROAD “E”

The prices bid herein for the following items shall include 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.

ROAD CONSTRUCTION

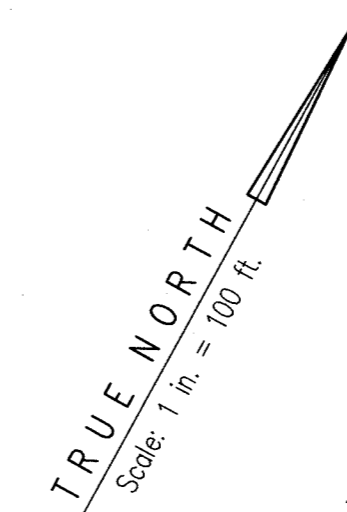
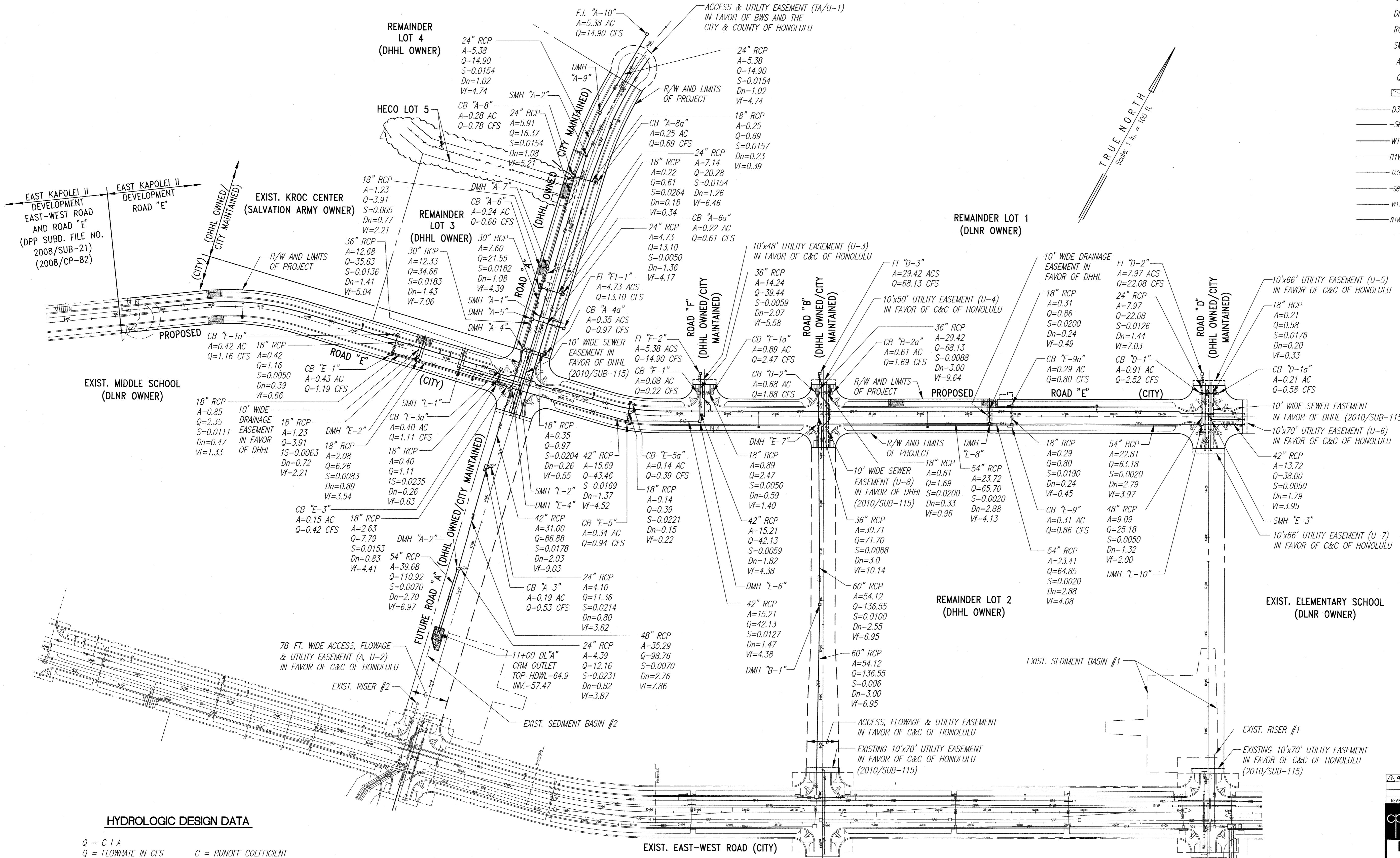
1.	5	Each, Wire mesh filter for field inlets, including installation, maintenance and removal, in place complete.	Each \$ _____	\$ _____
2.	3	Each, Wire mesh filter, gravel and silt fence for catch basin and drainage manholes, including installation, maintenance and removal, in place complete.	Each \$ _____	\$ _____
3.	23	Each, Sediment control filter at catch basins, including installation, maintenance and removal, in place complete.	Each \$ _____	\$ _____
4.	820	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.	319	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	\$ _____

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.	4,816	Cu. Yds., 11" and 12" aggregate base course under pavement, curbs and gutters, in place complete.	Per Cu. Yd.	\$ _____
14.	124	Lin. Ft., Standard concrete curb, in place complete.	Per Lin. Ft.	\$ _____
15.	5,704	Lin. Ft., Standard cast-in-place integral curb and gutter, per DPW Standard Detail R-4A (revised), in place complete.	Per Lin. Ft.	\$ _____
16.	3,022	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.	\$ _____

17.	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.	\$ _____
18.	2	Each, Remove NO PARKING sign and post, salvage, repair post hole and posts, in place complete.		\$ _____
			Each	\$ _____
19.	2	Each, Reinstall salvaged NO PARKING sign and posts, in place complete.		\$ _____
			Each	\$ _____
20.	18	Each, Traffic sign with post, in place complete.		\$ _____
			Each	\$ _____
21.	35	Each, Traffic sign without post, including straps, in place complete.		\$ _____
			Each	\$ _____
22.	21	Each, Type III barricade, in place complete.		\$ _____
			Each	\$ _____
23.	9	Each, Road closed sign, 48" x 30" R11-2 mounted on Type III barricade, in place complete.		\$ _____
			Each	\$ _____
24.	2	Each, Wooden barricade, City and County of Honolulu standards, in place complete.		\$ _____
			Each	\$ _____
25.	6	Each, Standard City and County street survey monument, in place complete.		\$ _____
			Each	\$ _____
26.	1	Each, Standard street name sign, in place complete.		\$ _____
			Each	\$ _____
27.	L. S.	Pavement markings, including striping, words, stop bars, and reflective markers, in place complete.		\$ _____
			Lump Sum	\$ _____

LEGEND

- PL PROPERTY LINE
- DI DRAIN INLET
- CB CATCH BASIN
- DMH DRAIN MANHOLE
- RCP REINFORCED CONCRETE PIPE
- SMH SEWER MANHOLE
- A AREA IN ACRES
- Q DRAIN RUNOFF IN CUBIC FEET PER SECOND
- HECO TRANSFORMER PAD LOT
- D36 NEW DRAINLINE W/ SIZE
- S8 NEW SEWERLINE W/ SIZE
- W12 NEW WATERLINE W/ SIZE
- R1W8 NEW NON-POTABLE WATERLINE W/ SIZE
- S8 EXISTING DRAINLINE W/ SIZE
- W12 EXISTING WATERLINE W/ SIZE
- R1W6 EXIST. NON-POTABLE WATERLINE W/ SIZE
- CENTERLINE OF ROADWAY



NOTES:

1. THESE PLANS ARE IN CONFORMANCE WITH THE WASTEWATER MASTER PLAN FOR EAST KAPOLEI II DEVELOPMENT, TMK: 9-1-17 POR. 71 AND 88", APPROVED APRIL 22, 2009.
2. CONNECTING SEWER LINES BETWEEN EAST-WEST ROAD AND ROAD "E" SHALL BE CONSTRUCTED UNDER THE EAST KAPOLEI II DEVELOPMENT PHASE 2B.
3. SEWER LINES WILL BE DHHL OWNED.

"PROPOSED CITY ROAD"

4-12-12	REV. PROP. LINE BETWEEN HECO LOTS 4 & 5	CPE	CEB: <i>[Signature]</i>
20+56.10 TO 20+57.53A	REV. DRAIN, RCP "A" STA. 12B	TSB: <i>[Signature]</i>	
REVISION DATE	DESCRIPTION	MADE BY	APPROVED
Community Planning and Engineering, Inc. Engineering Design Construction Management Infrastructure Planning 1100 Alakaa Street, Sixth Floor Honolulu, Hawaii			
EAST KAPOLEI II DEVELOPMENT ROAD "E" HONOLULU, EWA, OAHU, HAWAII (DPP SUBD. FILE NO. 2010/SUB-115) OWNER: DEPARTMENT OF LAND AND NATURAL RESOURCES DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS TAX MAP KEY: 9-1-17; Portion 110			
GENERAL LAYOUT PLAN			
DRAWN BY: MFM	ENGINEER: SS, FJC	CHECKED BY: AMM	APPROVED:
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. LICENSE EXPIRATION DATE: 04/30/12			
<i>[Signature]</i> 1/24/12	<i>[Signature]</i> 12/2/11	<i>[Signature]</i> 11-29-11	
DATE	DATE	DATE	
FILE	PROJECT	FOLDER	NO.

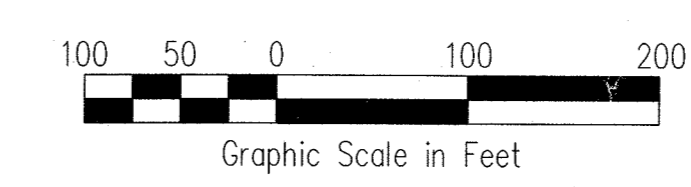
HYDROLOGIC DESIGN DATA

$Q = C I A$
 $Q =$ FLOWRATE IN CFS
 $I =$ RAINFALL INTENSITY
 $C =$ RUNOFF COEFFICIENT
 $A =$ AREA IN ACRES (AC)

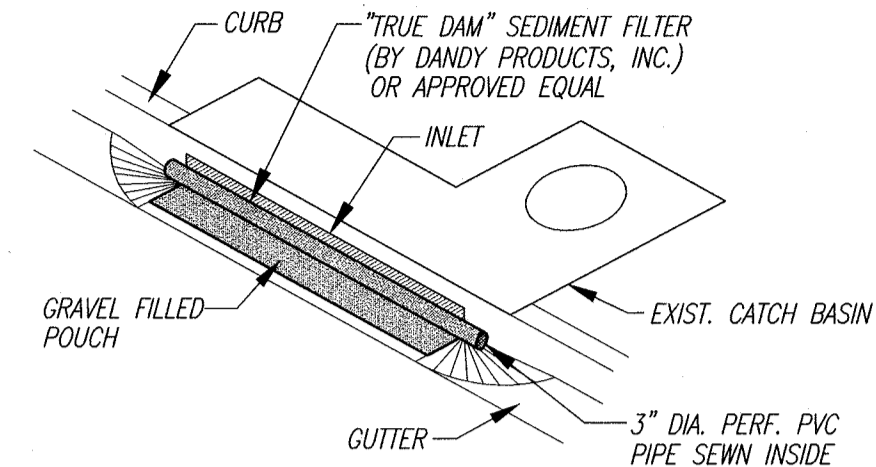
$T_m = 10$ YRS
 $i = 1.8$
 $I = 3.96$
 $C = 0.70$
 $CI = 2.77$ CFS/AC

$T_m = 50$ YRS
 $i = 2.2$
 $I = 4.84$
 $C = 0.70$
 $CI = 3.39$ CFS/AC

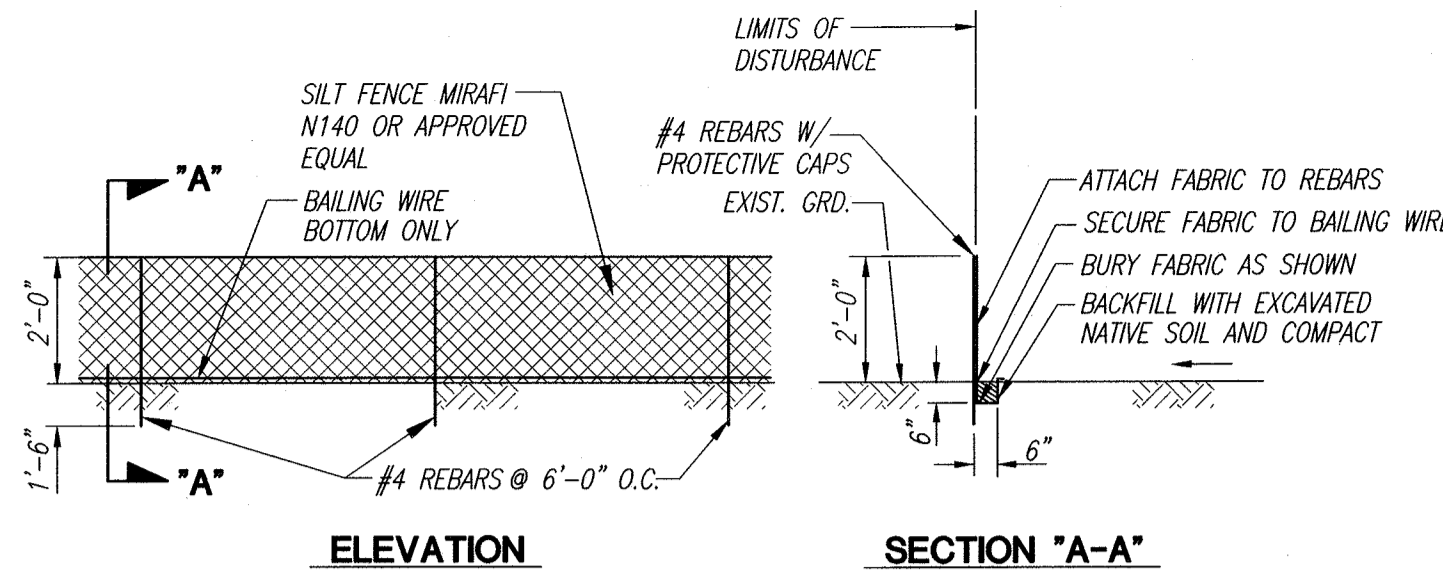
GENERAL LAYOUT PLAN
 SCALE: 1"=100'



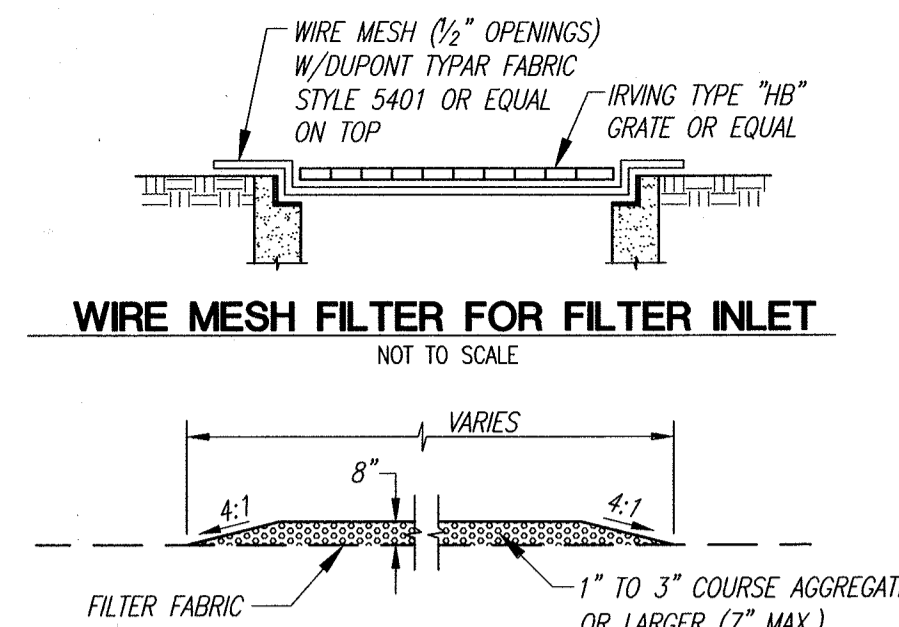
- NOTES:**
1. SEDIMENT AND DEBRIS AT THE SEDIMENT CONTROL FILTER AT CATCH BASINS SHALL BE CLEANED AND REMOVED WEEKLY IN DRY PERIODS AND WITHIN 24 HR PERIOD DURING RAINFALL. DAILY CHECKING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REMOVAL OF SEDIMENT AND DEBRIS.
 2. DURING AN EVENT OF ABOVE NORMAL RAINFALL, THE CONTRACTOR SHALL REMOVE SEDIMENT FILTER AND REPLACE AFTER EVENT HAS PASSED.



DETAIL - SEDIMENT CONTROL FILTER AT CATCH BASIN
NOT TO SCALE



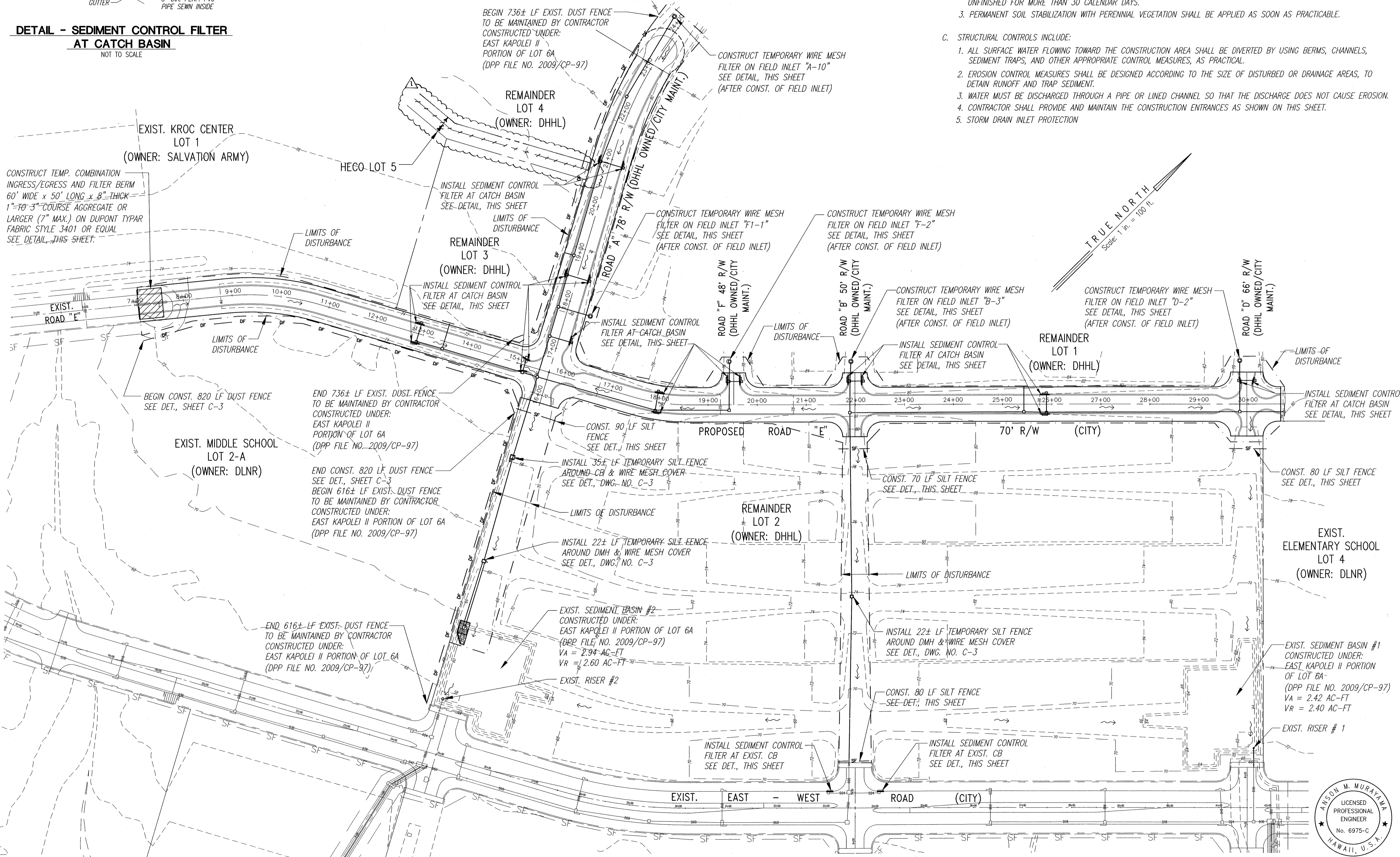
DETAIL - SILT FENCE
NOT TO SCALE



DETAIL - COMBINATION INGRESS/EGRESS
NOT TO SCALE

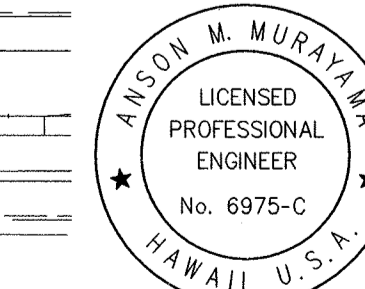
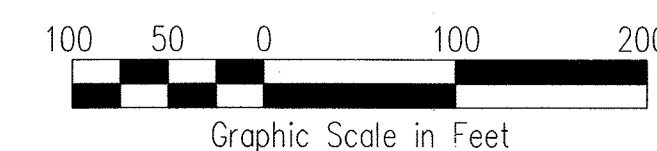
CONSTRUCTION BMPs

1. THE FOLLOWING SPECIAL CONDITIONS APPLY TO ALL LAND DISTURBANCE WORK CONDUCTED UNDER THE GENERAL PERMIT:
 - A. CONSTRUCTION MANAGEMENT TECHNIQUES INCLUDE:
 1. CLEARING AND GRUBBING SHALL BE HELD TO THE MINIMUM NECESSARY FOR CONSTRUCTION AND EQUIPMENT OPERATION.
 2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE CONSTRUCTION BEGINS AND SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT SHALL BE REPLACED AT THE END OF THE WORK DAY.
 3. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED, AS NECESSARY, FOR EXAMPLE, WEEKLY IN DRY PERIODS AND WITHIN TWENTY-FOUR HOURS AFTER ANY RAINFALL OF 0.5 INCH OR GREATER WITHIN A 24-HOUR PERIOD. DURING PROLONGED RAINFALL, DAILY CHECKING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
 4. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.
 - B. VEGETATION CONTROLS INCLUDE:
 1. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 20 CALENDAR DAYS PRIOR TO SITE DISTURBANCE.
 2. TEMPORARY SOIL STABILIZATION WITH APPROPRIATE VEGETATION SHALL BE APPLIED ON AREAS THAT WILL REMAIN UNFINISHED FOR MORE THAN 30 CALENDAR DAYS.
 3. PERMANENT SOIL STABILIZATION WITH PERENNIAL VEGETATION SHALL BE APPLIED AS SOON AS PRACTICABLE.
 - C. STRUCTURAL CONTROLS INCLUDE:
 1. ALL SURFACE WATER FLOWING TOWARD THE CONSTRUCTION AREA SHALL BE DIVERTED BY USING BERMS, CHANNELS, SEDIMENT TRAPS, AND OTHER APPROPRIATE CONTROL MEASURES, AS PRACTICAL.
 2. EROSION CONTROL MEASURES SHALL BE DESIGNED ACCORDING TO THE SIZE OF DISTURBED OR DRAINAGE AREAS, TO DETAIN RUNOFF AND TRAP SEDIMENT.
 3. WATER MUST BE DISCHARGED THROUGH A PIPE OR LINED CHANNEL SO THAT THE DISCHARGE DOES NOT CAUSE EROSION.
 4. CONTRACTOR SHALL PROVIDE AND MAINTAIN THE CONSTRUCTION ENTRANCES AS SHOWN ON THIS SHEET.
 5. STORM DRAIN INLET PROTECTION

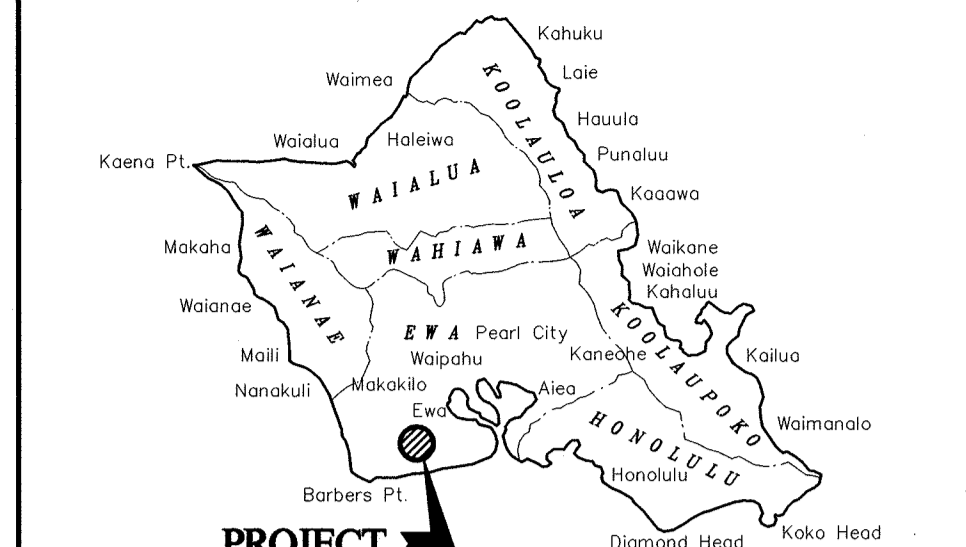


EROSION CONTROL PLAN

SCALE: 1"=100'



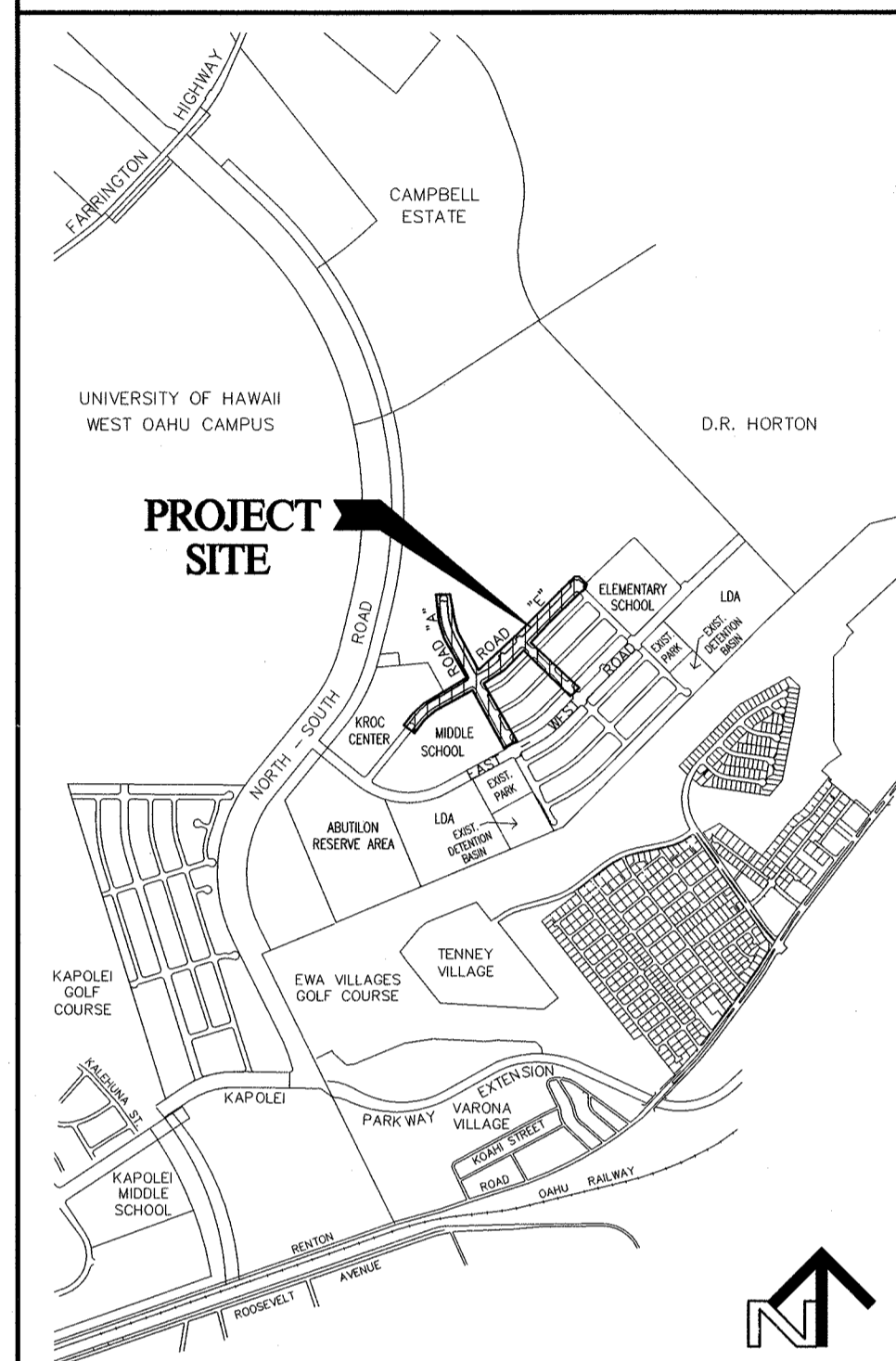
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PROJECT LOCATION

VICINITY MAP

NOT TO SCALE



PROJECT SITE

LOCATION MAP

NOT TO SCALE

LEGEND

- 70' --- EXISTING GRADE
- ~ SURFACE WATER FLOW
- - - - - LIMITS OF DISTURBANCE
- - - - - DUST FENCE
- - - - - SILT FENCE
- - - - - INLET PROTECTION
- ▨ CONSTRUCTION INGRESS/EGRESS AND FILTER BERM
- - - - - PROJECT BOUNDARY
- - - - - PROPERTY LINE

REV. 4-12-12	REV. PROP. LINE BETWEEN HECO LOT 5 & REMAINDER LOT 4	CPE	CEB: <i>ur 6/4/12</i>
REVISION DATE	DESCRIPTION	MADE BY	APPROVED

Community Planning and Engineering, Inc.
Engineering Design | Construction Management | Infrastructure Planning
1100 Alakea Street, Sixth Floor Honolulu, Hawaii

EAST KAPOLEI II DEVELOPMENT ROAD "E"
HONOLULU, EWA, OAHU, HAWAII
(DPP SUBD. FILE NO. 2010/SUB-115)
OWNER: DEPARTMENT OF LAND AND NATURAL RESOURCES
DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS
TAX MAP KEY: 9-1-17; Portion 110

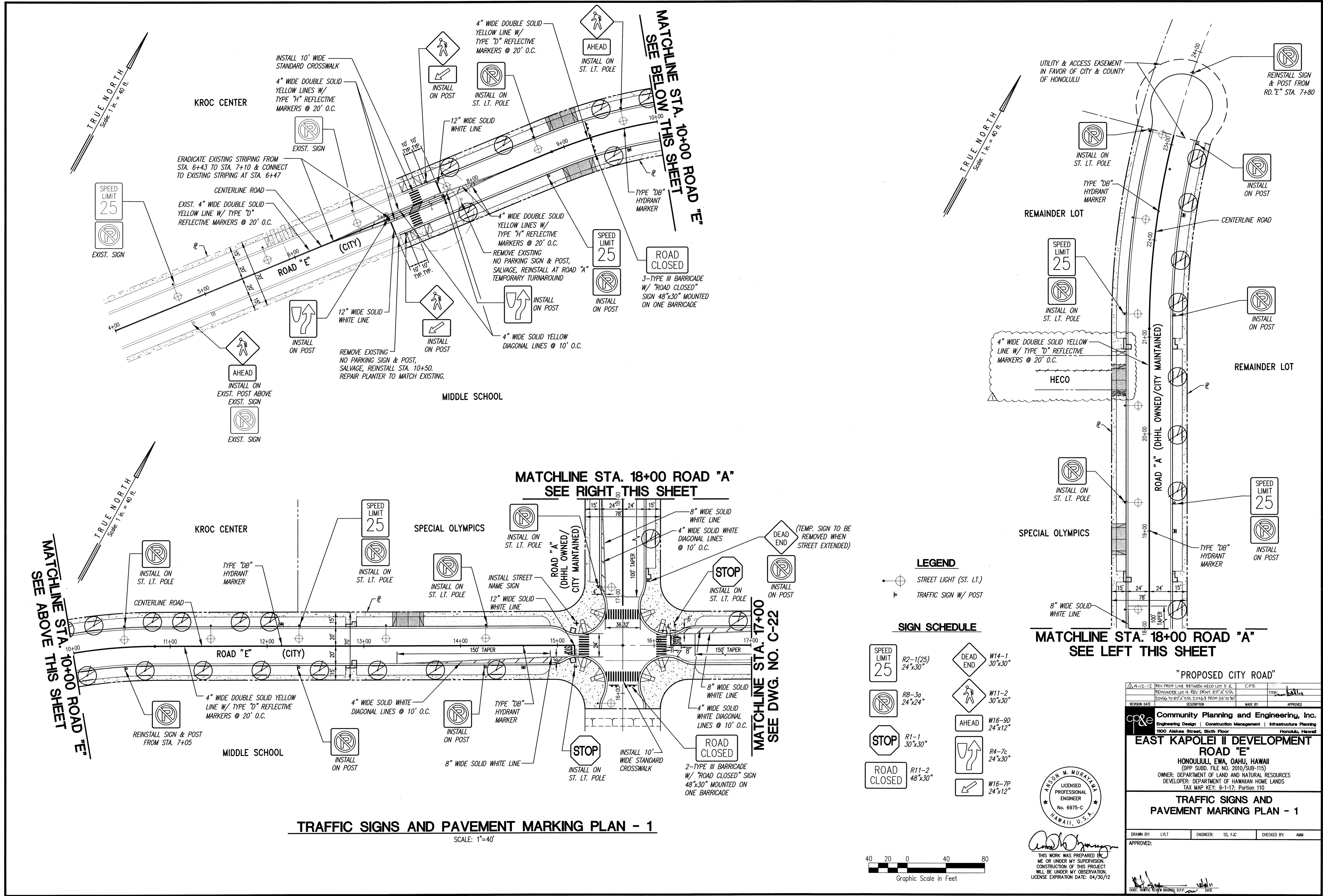
EROSION CONTROL PLAN

DRAWN BY: AMP	ENGINEER: SS, AMP	CHECKED BY: AMM
APPROVED:		

M. J. [Signature] 1/24/12
CHIEF, CIVIL ENGINEERING BRANCH, DPP, HAWAII

DWG. NO. C-5	SHEET 6 OF 61 SHEETS	FILE	POCKET	FOLDER	NO.
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P:\Land Projects\DHHL East Kapolei\Road E\Construction Drawings\Government Review #4122 TRAFFIC SIGNS AND PAVEMENT MARKING PLAN - 1.GR4.dwg, 22 TRAFFIC SIGNS AND PAVEMENT MARKING PLAN - 1, 10/26/2011 10:48:19 AM, 1:1

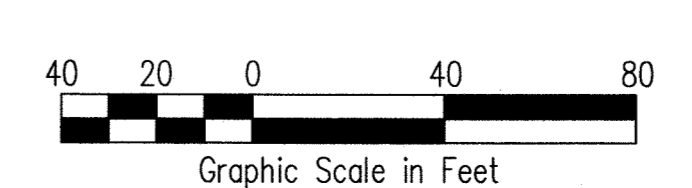


LEGEND

- ⊙ STREET LIGHT (ST. LT.)
- ⊙ TRAFFIC SIGN W/ POST

SIGN SCHEDULE

- | | | | |
|--|---------------------|--|-------------------|
| | R2-1(25)
24"x30" | | W14-1
30"x30" |
| | R8-3a
24"x24" | | W11-2
30"x30" |
| | R1-1
30"x30" | | W16-9D
24"x12" |
| | R11-2
48"x30" | | R4-7c
24"x30" |
| | | | W16-7P
24"x12" |



TRAFFIC SIGNS AND PAVEMENT MARKING PLAN - 1
SCALE: 1"=40'

"PROPOSED CITY ROAD"

Δ 4-12-12	REV PROP LINE BETWEEN HECO LOT 5 & REMAINDER LOT 4 REV DRAIN RPT A STA. 20+56 TO RPT A STA. 20+63 FROM STA. 20	C.P.E.	TRP
REVISION DATE	DESCRIPTION	MADE BY	APPROVED

Community Planning and Engineering, Inc.
Engineering Design | Construction Management | Infrastructure Planning
1000 Alakea Street, 8th Floor Honolulu, Hawaii

EAST KAPOLEI II DEVELOPMENT ROAD "E"
HONOLULU, EWA, OAHU, HAWAII
(OPP. SUBD. FILE NO. 2010/SUB-115)
OWNER: DEPARTMENT OF LAND AND NATURAL RESOURCES
DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS
TAX MAP KEY: 9-1-17: Portion 110

TRAFFIC SIGNS AND PAVEMENT MARKING PLAN - 1

DRAWN BY: LYL	ENGINEER: SS, FJC	CHECKED BY: AMM
---------------	-------------------	-----------------

APPROVED: _____
DATE: _____

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