

	Bioswale Dimensio	ns
	University Ave.	University Ave.
	Cloverleaf West	Cloverleaf East
а	1'-4"	2'-0"
Ь	0'-4"	1'-0"
С	4'-0"	6'-0"

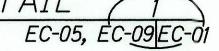
Note:

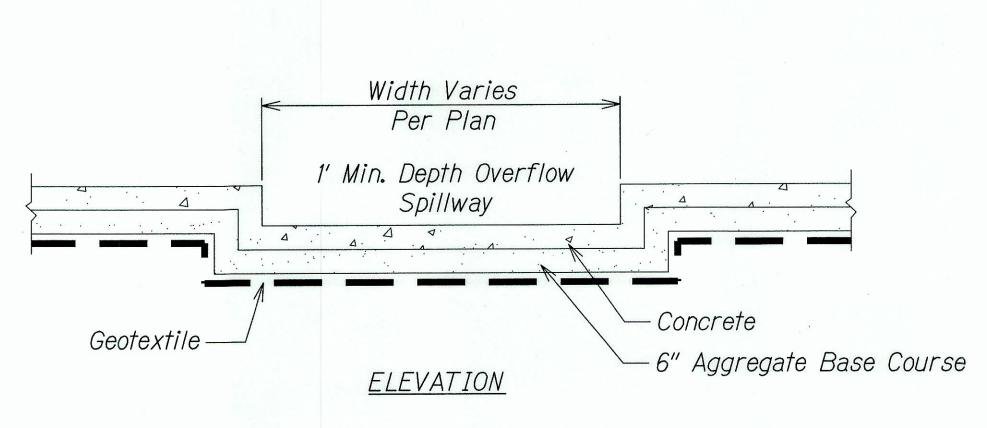
- 1. Soil type/vegetation per Landscape plans.
- 2. Provide cleanouts for underdrain pipe at 100' o.c. (max.).
- 3. Bioswale section shall be uniform.

 Underdrain pipe shall be placed at the same slope as the bioswale as indicated in the plans.



Scale: Not to Scale





Surface Area Determined
At Top of Weir

Concrete

6" Aggregate
Base Course
Geotextile

* 3:1 slope; unless

<u>SECTION</u>

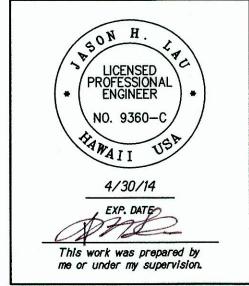
Notes:

- 1. Sediment shall be removed from the spillway when it reaches 6 inches in depth.
- 2. Any damage to the spillway slopes shall be repaired.
- 3. For structural details, see Sheet EC-02.

TYP. CONC. SPILLWAY DETAIL

Scale: Not to Scale





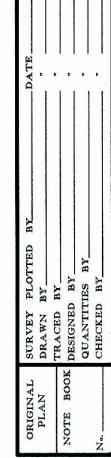
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS

ALA WAI WATERSHED STORM WATER
BEST MANAGEMENT PRACTICES ON OAHU

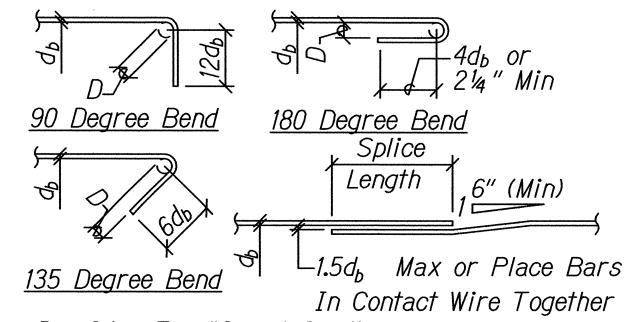
Project No. H1I-01-14M
Scale: Not to Scale Date: January 2014

SHEET No. EC-01 OF 16 SHEETS



otherwise noted per plans

	Minimum S	Splice	<i>♦ Embedme</i>	nt Len	gths
Bar Size	Lap Splice		Embedment		
	Bot Bar Or Wall Bar	Top Bar	Straight		
			Bot Bar Or Wall Bar	Top Bar	w/ Std Hook
#3, #4	29"	38"	22"	29"	11''
#5	36"	47"	28"	36"	14"
#6	43"	56"	33"	43"	17''
#7	<i>63</i> "	82"	48"	63"	20"
#8	72"	94"	<i>55"</i>	72"	22"
#9	<i>81''</i>	106"	62"	81"	25"
#10	91''	119"	70"	91"	28"
#11	101''	132"	78"	101"	31''

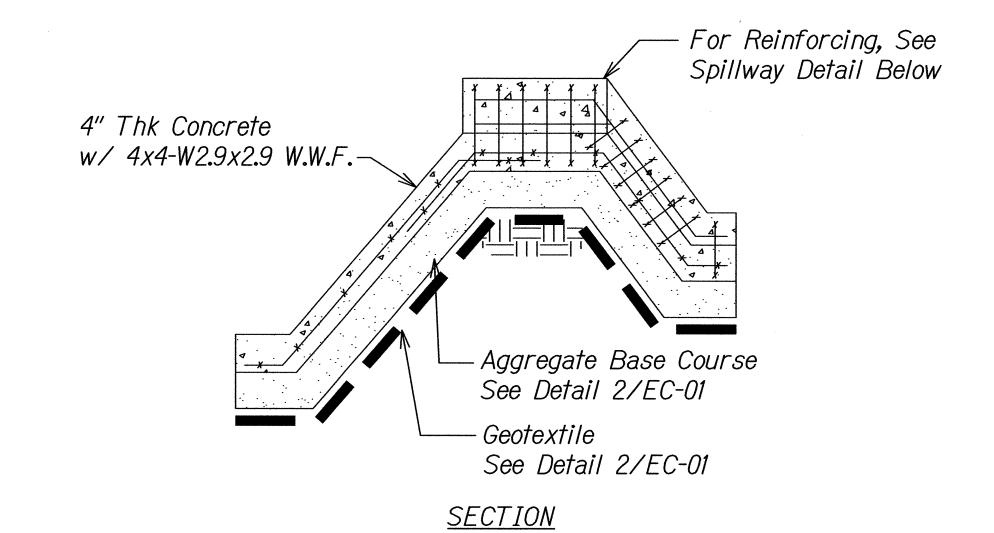


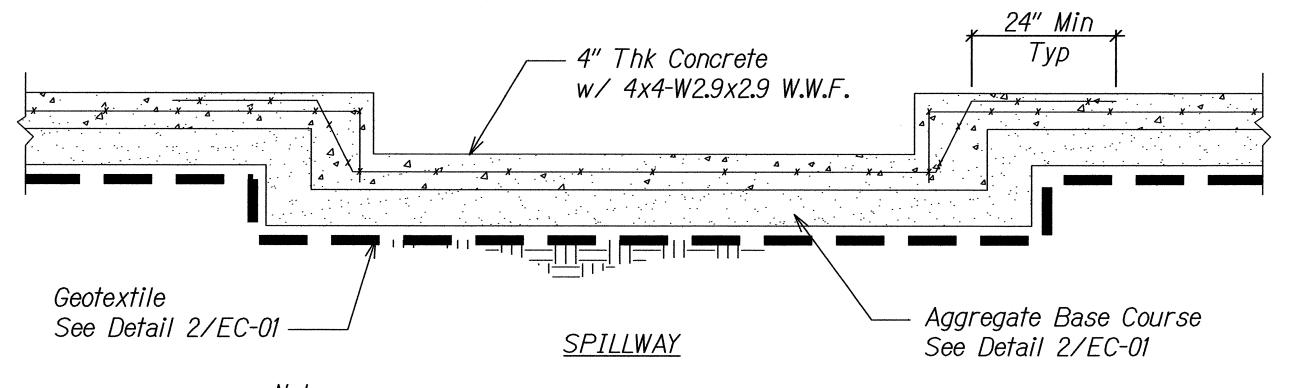
- $D = 6d_b$ For #8 and Smaller
- D = 8d_b For #9 To #11
- Lengths Are For Concrete Beams & Columns With Rebar Spaced 1
 Bar Diameter Min O.C. And Concrete Walls with Rebars Spaced 2
 Bar Diameters Min O.C. Increase Bar Length 50% For Bars
 Spaced Closer Than Minimums Specified.
- 2. "Top Bars" Are Horizontal Bars With 12" Or More Of Concrete Cast Below.

TYPICAL REBAR SPLICE & EMBEDMENT LENGTH SCHEDULE

Scale: Not To Scale







Notes:

- 1. For balance of information, See Detail 2 on Sheet EC-01.
- 2. Contractor shall provide thickened slab edges. See Typical Slab-On-Grade Detail At Thickened Slab Edge, this sheet.

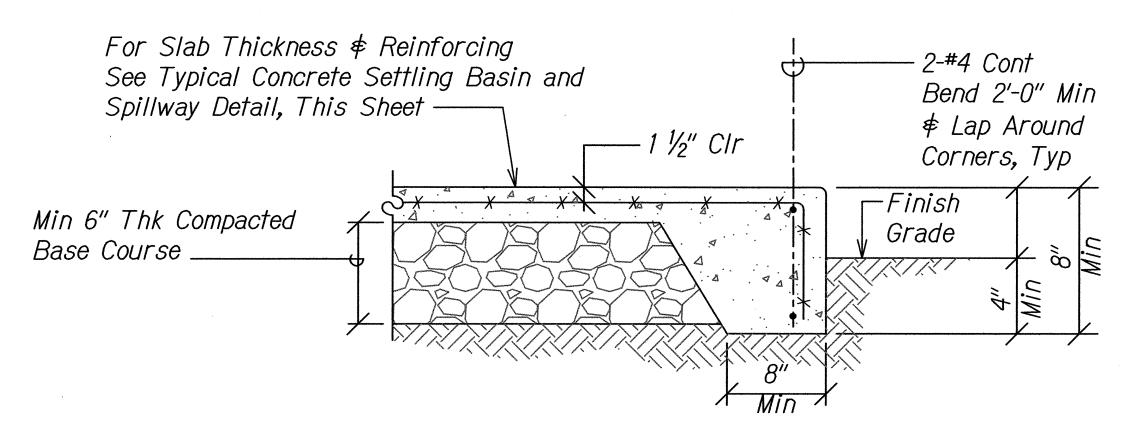
TYPICAL CONC SETTLING BASIN AND SPILLWAY REINFORCING DETAIL

Scale: Not To Scale



FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL SHEET TOTAL SHEETS

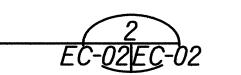
HAWAII HAW. H1I-01-14M 2014 16 42

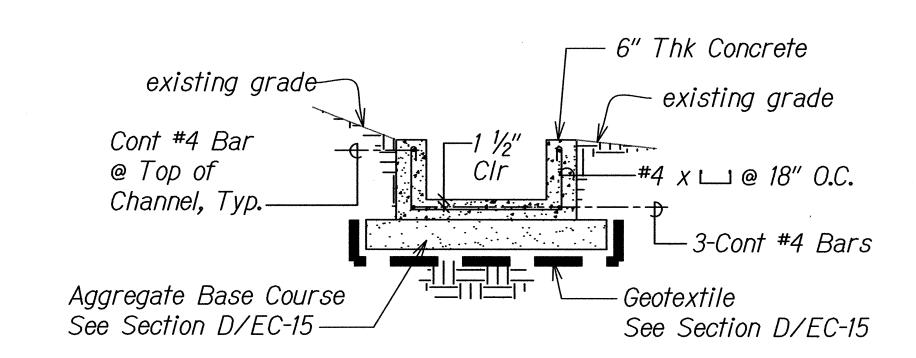


<u>Notes:</u> Welded wire fabric reinforcement shall be chaired to maintain proper concrete clear cover throughout the slab.

TYPICAL SLAB-ON-GRADE DETAIL AT THICKENED SLAB EDGE

Scale: Not To Scale



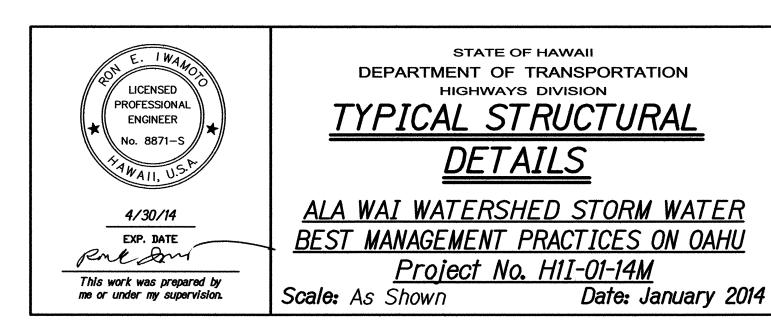


Notes: For balance of Information, See Section D on Sheet EC-15

TYPICAL CONC OPEN CHANNEL DETAIL

Scale: Not To Scale





SHEET No. EC-02 OF 16 SHEETS

16