

TYPICAL CURB RAMPS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE PLOY EXP. DATE

"OBSERVATION OF CONSTRUCTION" IS DEFINED

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16–115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL CURB RAMP LAYOUT

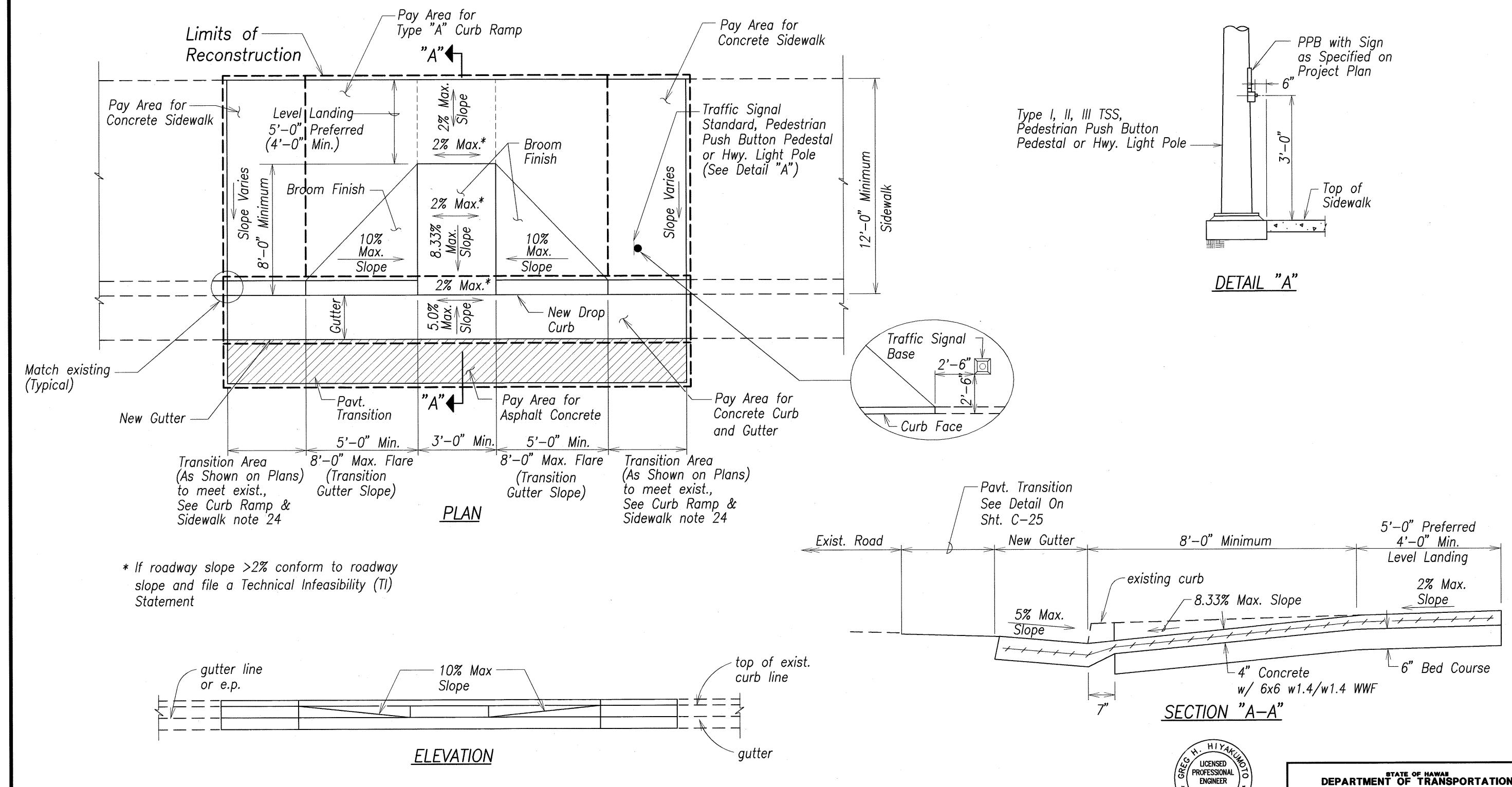
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 4 Fed. Aid Proj. No. CMAQ-0300(95)

Scale: None

Date: AUGUST 2004

SHEET No. C-16 OF 93 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(95)	2004	18	128
AWAII	HAW.	CMAQ-0300(95)	2004	18	128



SURVEY PLOTTED I
DRAWN BY
TRACED BY
DRSIGNED BY
QUANTITIES BY
CHECKED BY ORIGINAL PLAN NOTE BOOK No.

CURB RAMP - TYPE "A" SIDEWALK WIDTH 12'-0" OR GREATER DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP DETAILS - 1

Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 4 Fed. Aid Proj. No. CMAQ-0300(95)

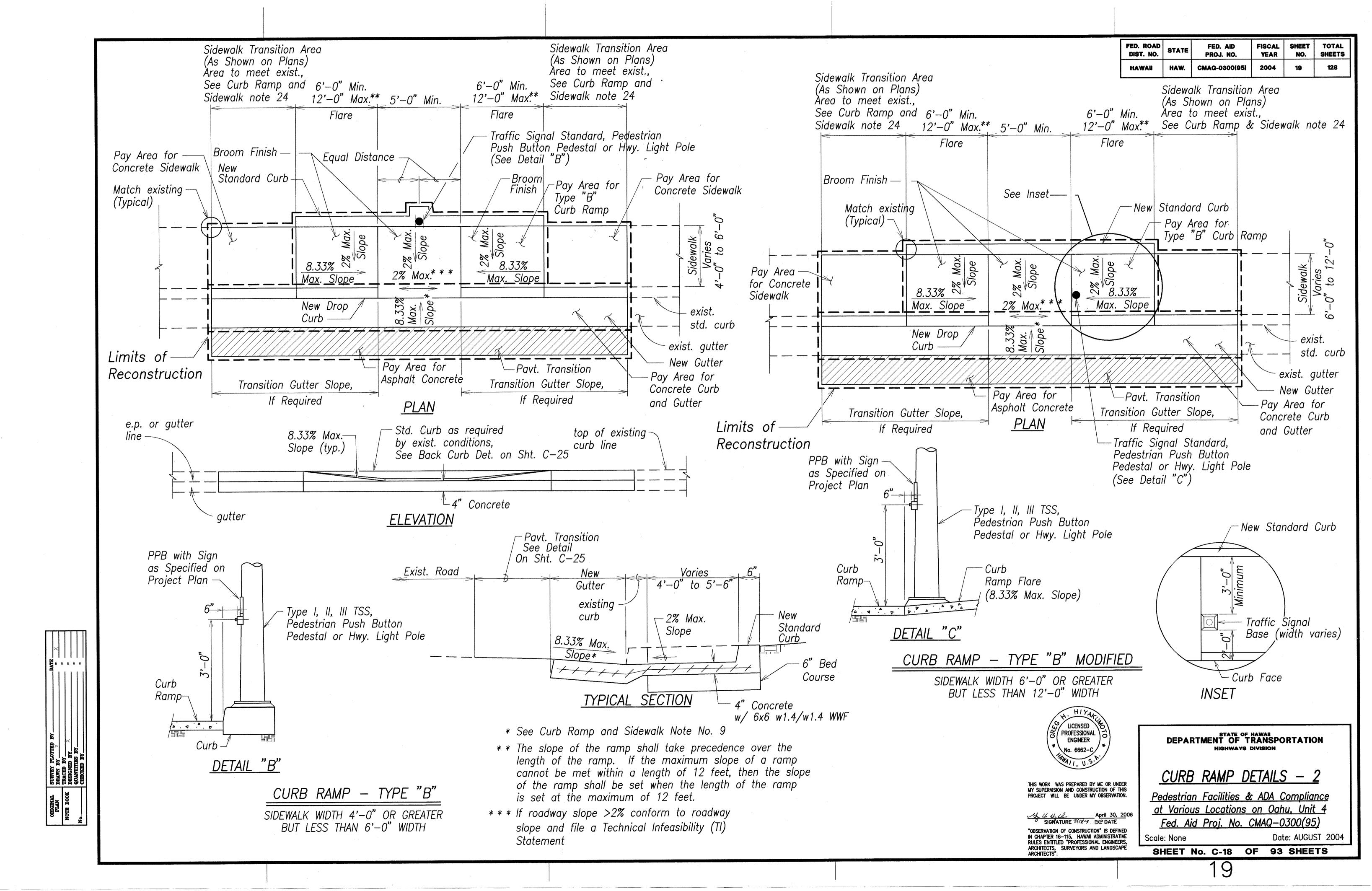
Scale: None

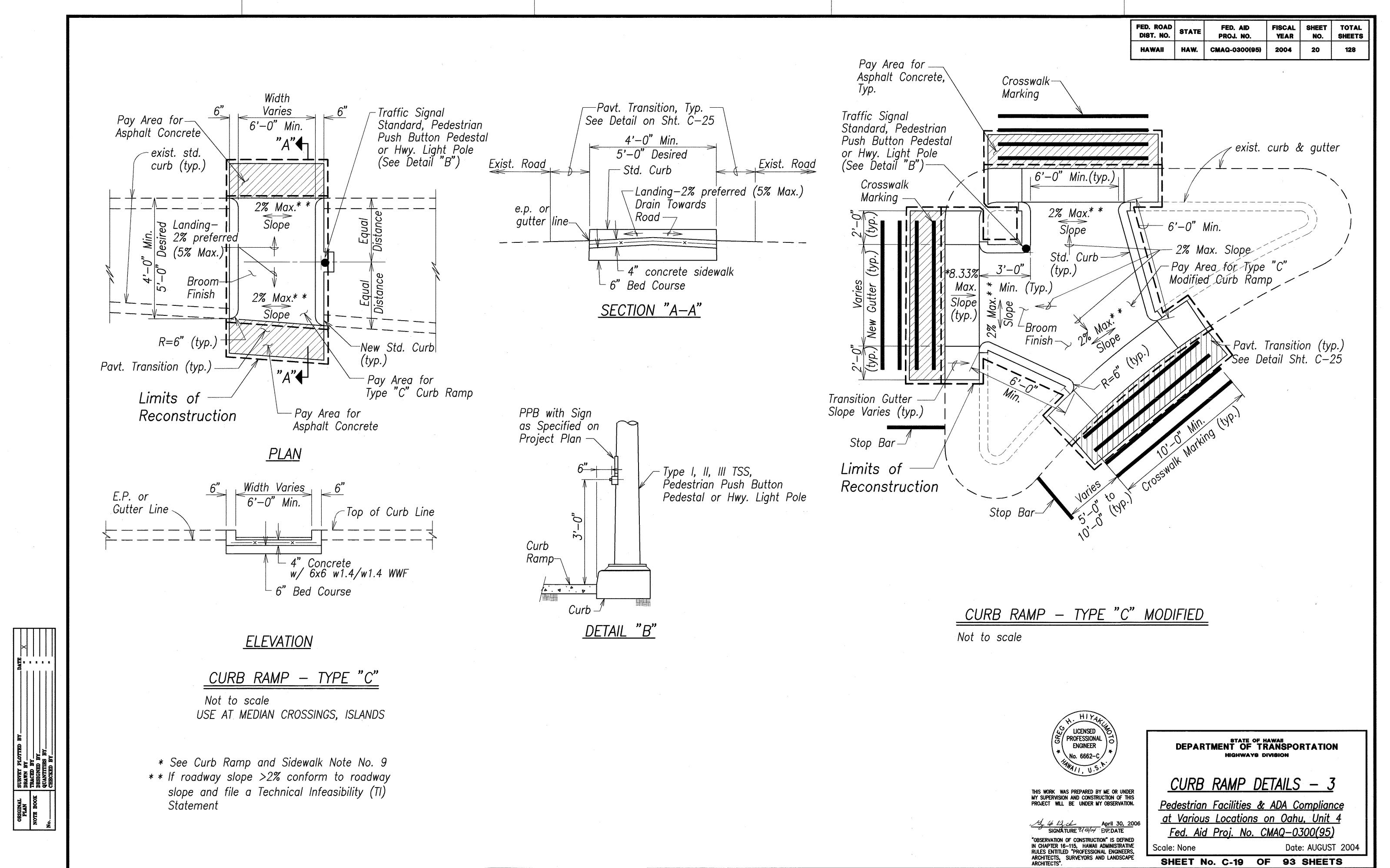
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

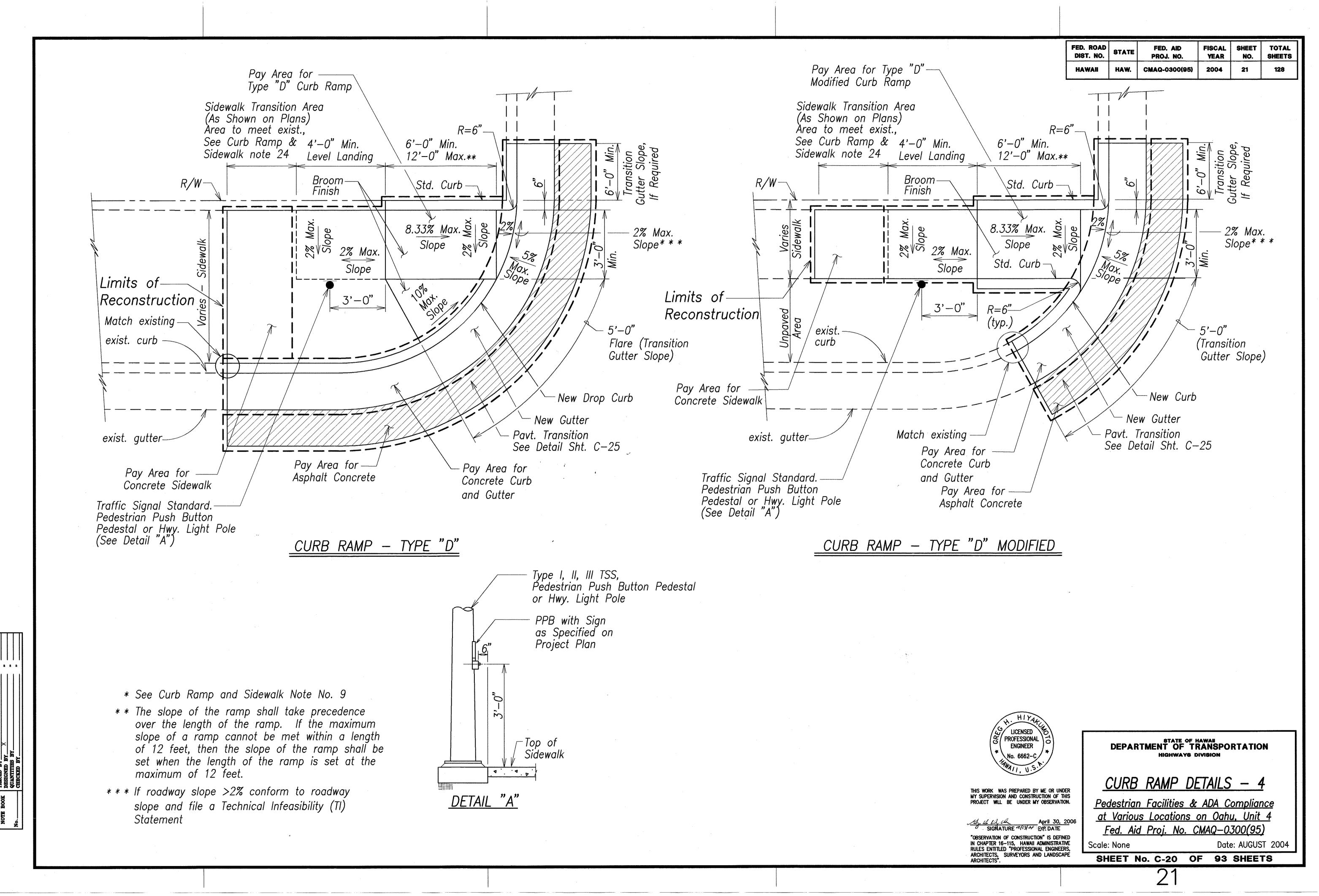
SIGNATURE EVISION EXP. DATE

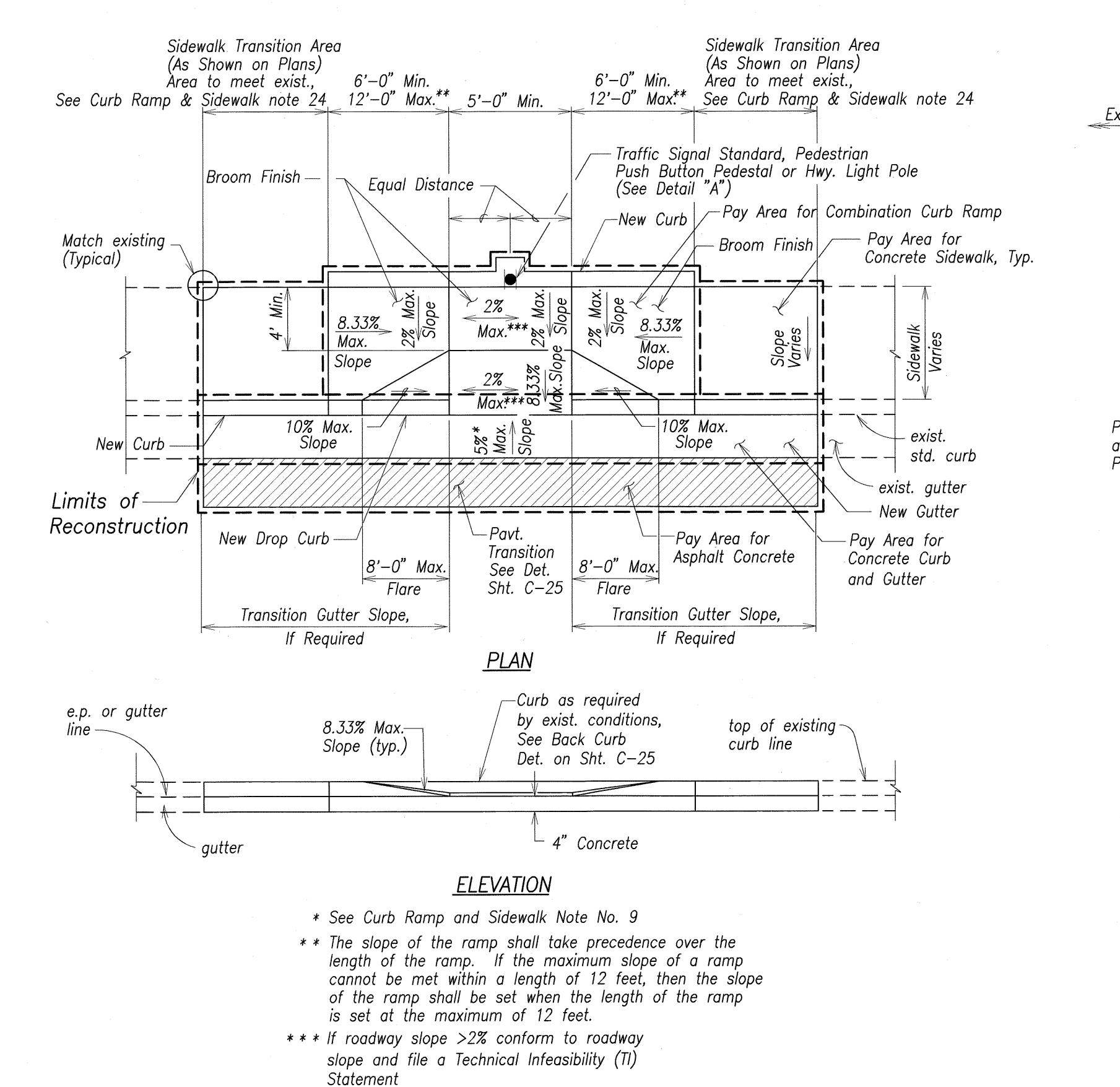
"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

Date: AUGUST 2004 SHEET No. C-17 OF 93 SHEETS







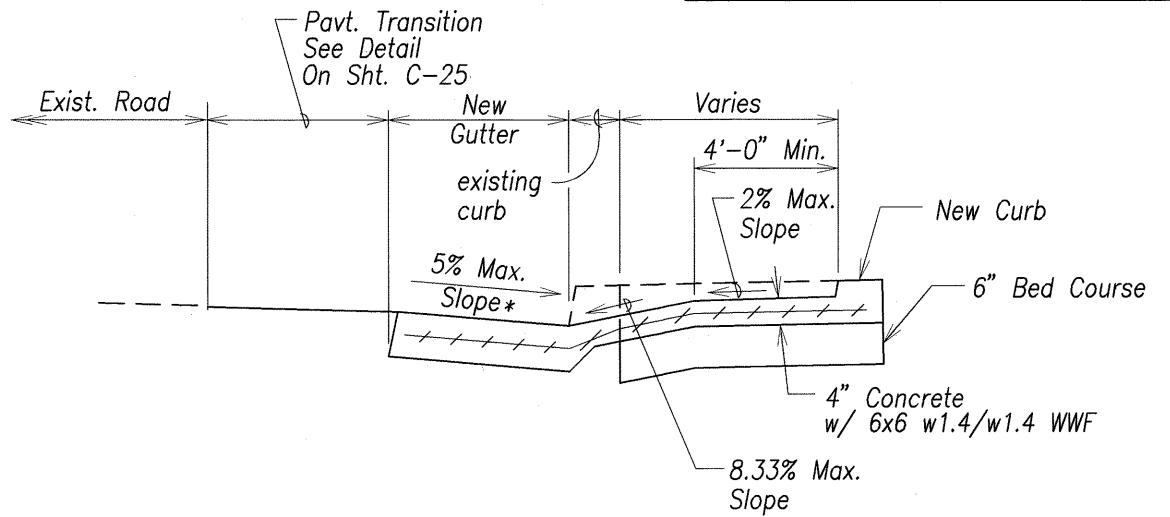


CURB RAMP - COMBINATION

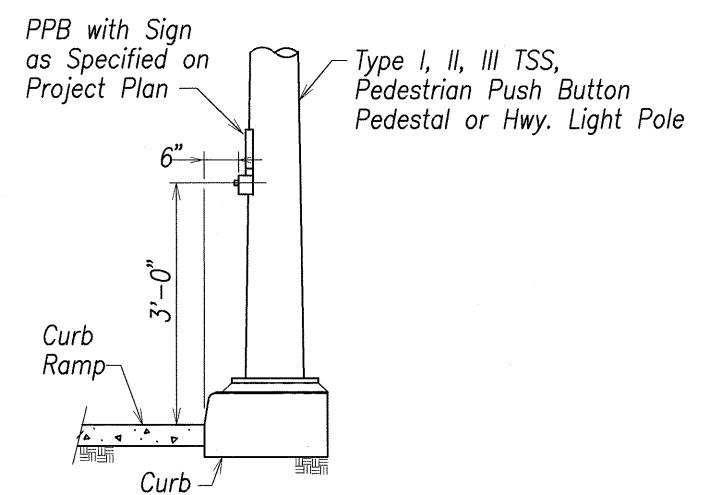
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY

ORIGINAL PLAN NOTE BOOK No.

FED. ROAD DIST. NO. FISCAL YEAR SHEET TOTAL NO. SHEETS FED. AID PROJ. NO. 2004 CMAQ-0300(95) 22 HAWAII HAW.



TYPICAL SECTION



DETAIL "A"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16–115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

DEPARTMENT OF TRANSPORTATION

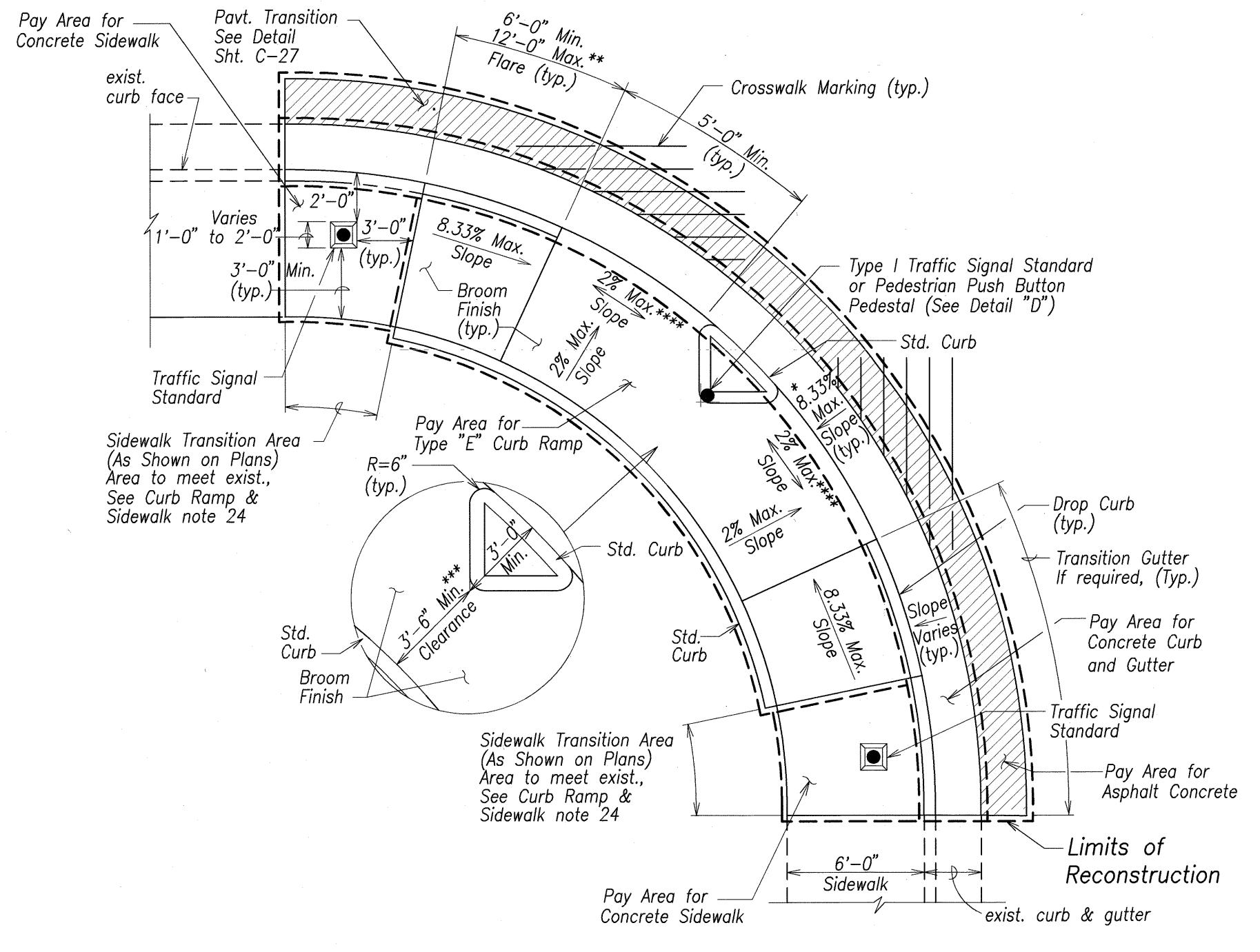
CURB RAMP DETAILS - 5

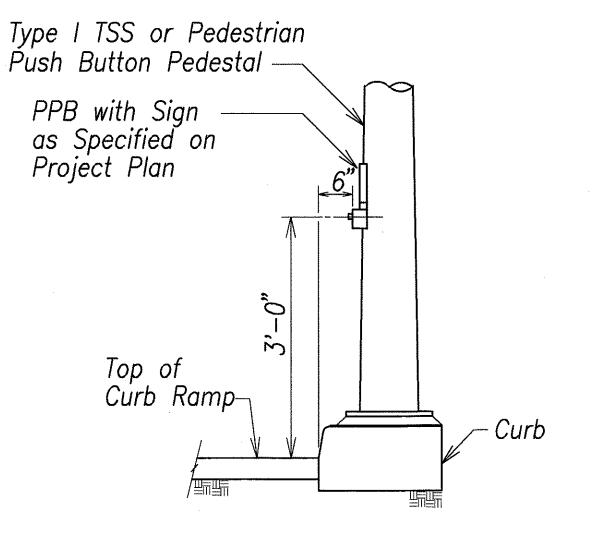
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 4 Fed. Aid Proj. No. CMAQ-0300(95)

Scale: None

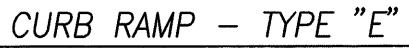
Date: AUGUST 2004 SHEET No. C-21 OF 93 SHEETS

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	CMAQ-0300(95)	2004	23	128





- * See Curb Ramp and Sidewalk Note No. 9 Sht. C-5
- * * The slope of the ramp shall take precedence over the length of the ramp. If the maximum slope of a ramp cannot be met within a length of 12 feet, then the slope of the ramp shall be set when the length of the ramp is set at the maximum of 12 feet.
- * * * The Clearance shall be increased to 6'-0" or wider at areas with high pedestrian traffic or as directed by the Engineer or as shown on the plans.
- **** If roadway slope is >2% conform to roadway slope and file Technical Infeasibility (TI) Statement.



SIDEWALK WIDTH 7'-0" OR GREATER

(TO BE USED ONLY WITH TRAFFIC SIGNAL STANDARD OR PEDESTRIAN PUSH BUTTON PEDESTAL ON TRIANGULAR "ISLAND")



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE Way EXP. DATE "OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16–115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

DEPARTMENT OF TRANSPORTATION

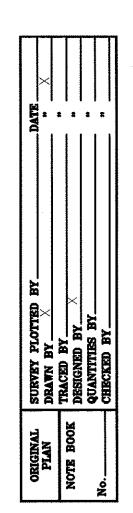
CURB RAMP DETAILS — 6

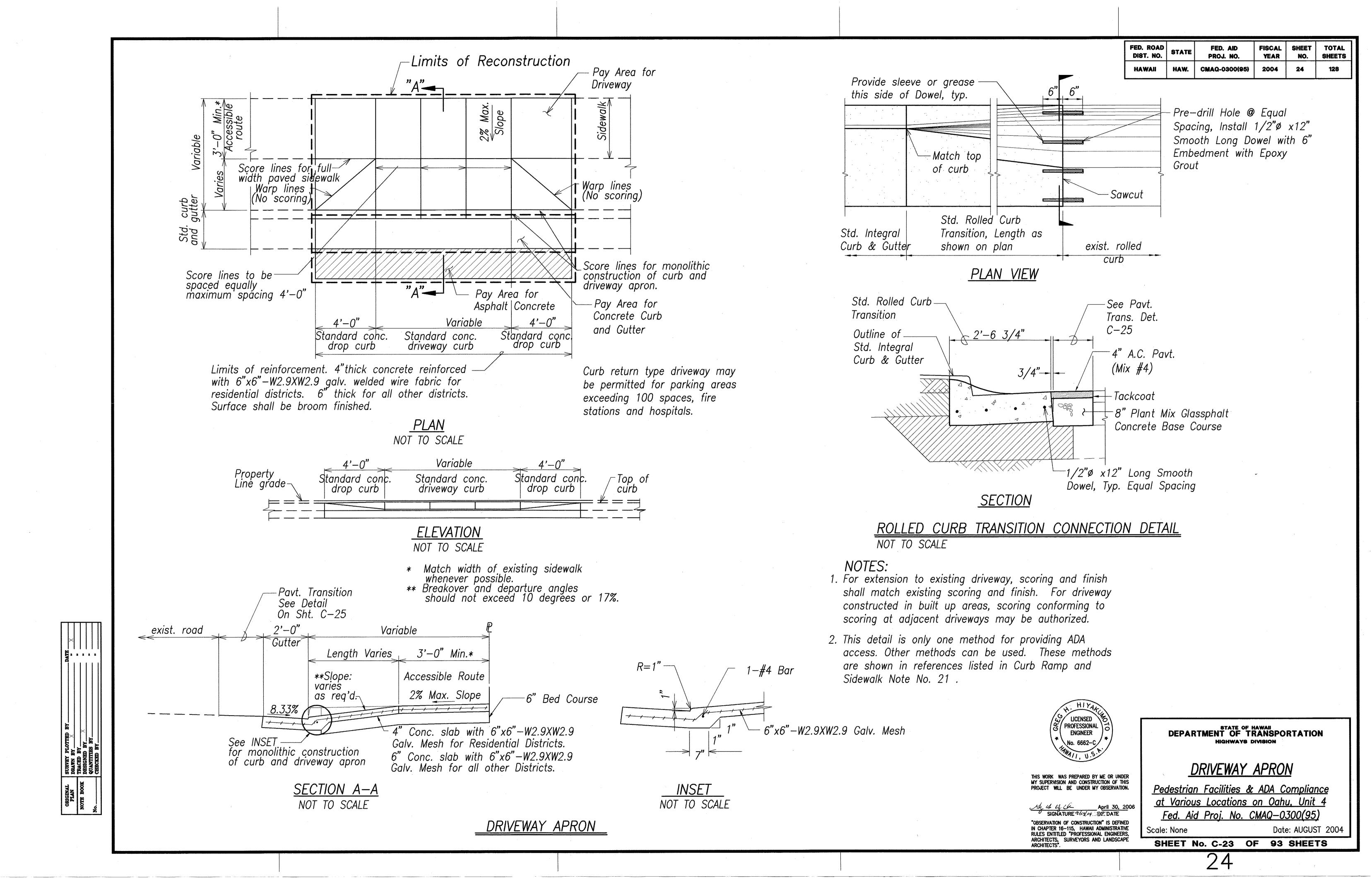
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 4 Fed. Aid Proj. No. CMAQ-0300(95)

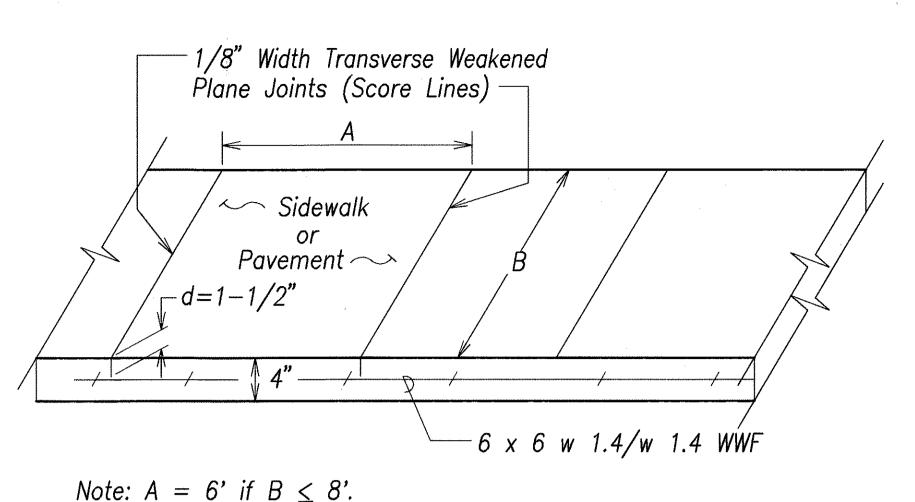
Scale: None

SHEET No. C-22 OF 93 SHEETS

Date: AUGUST 2004

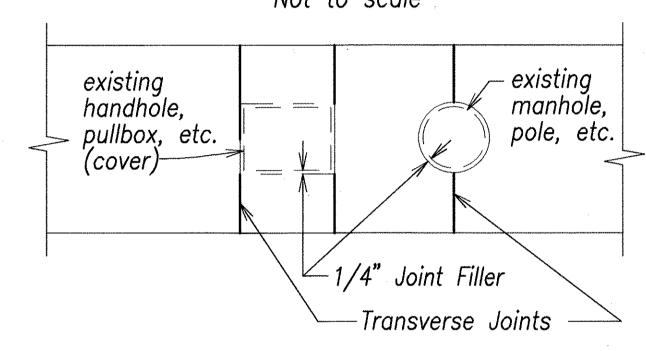






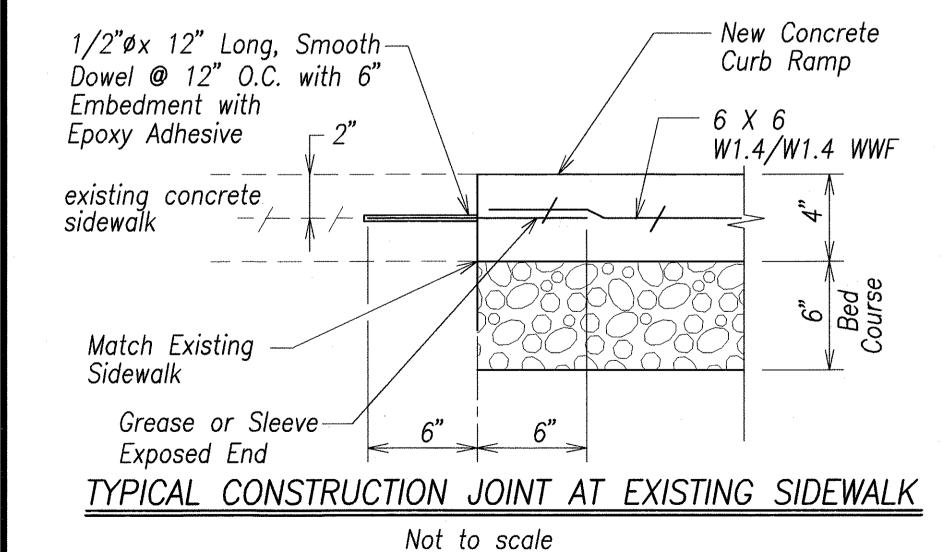
If B > 8', Add Longitudinal Joint SIDEWALK SCORE LINE DETAIL

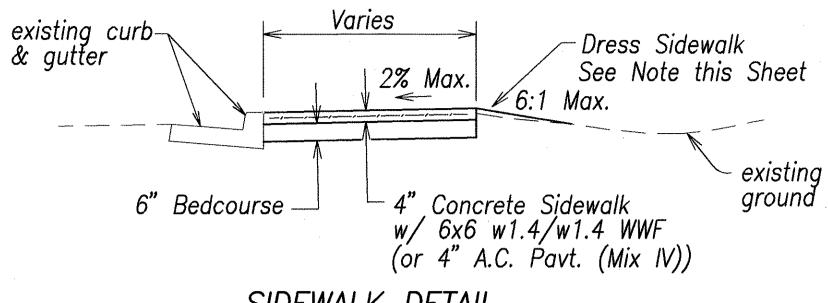
Not to scale



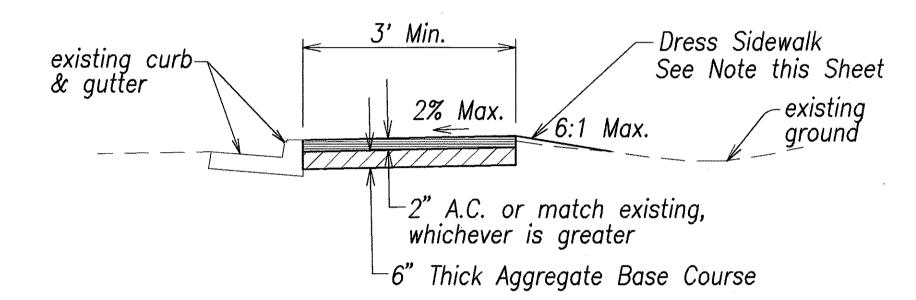
SIDEWALK ISOLATION JOINT DETAIL

Not to scale



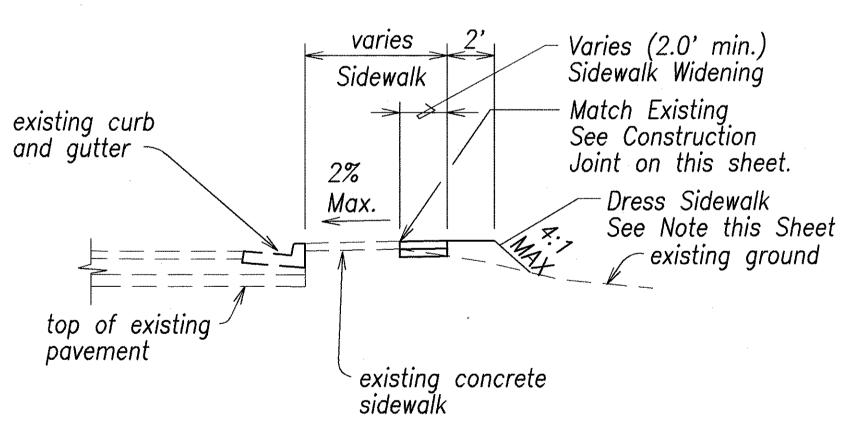


SIDEWALK DETAIL Not to scale



A.C. SIDEWALK DETAIL

Not to scale



SIDEWALK WIDENING SECTION

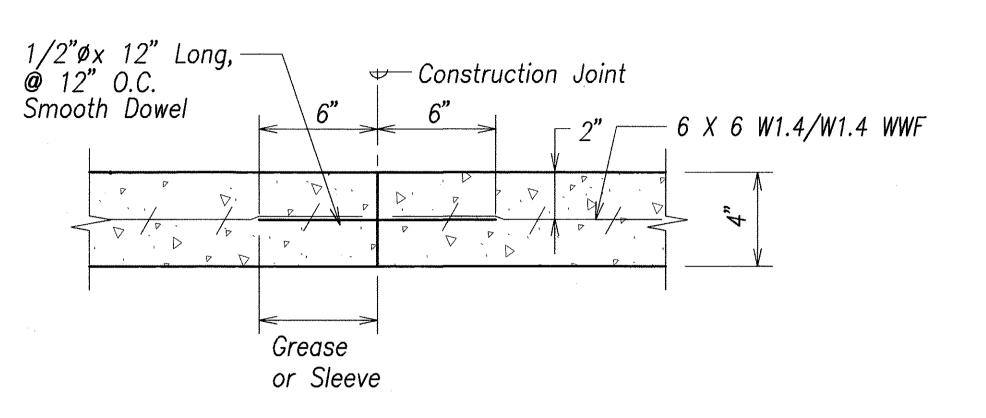
Not to scale

NOTES:

- 1. Dressing of sidewalk shall consist of clearing, grubbing, grading, reshaping and compacting the area adjacent to the improvement with suitable material as shown on the plans and/or as directed by the Engineer. If existing ground is asphalt or concrete surface, dress sidewalk with A.C. pavement, Mix No. IV. This work shall be considered incidental to the new sidewalk.
- 2. Transverse and Longitudinal Weakened Plane Joints for sidewalk shall be considered incidental to the New Sidewalk.
- 3. Installation of dowels and tie bars including drilling, and epoxy grout shall be incidental to Sidewalk.

FED. ROAD DIST. NO. STATE FED. AID PROJ. NO. FISCAL YEAR NO. SHEETS

HAWAII HAW. CMAQ-0300(95) 2004 25 128



TRANSVERSE CONSTRUCTION JOINT DETAIL

Not to scale



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

April 30, 2006
SIGNATURE PLAY DATE

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16–115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIDEWALK DETAILS

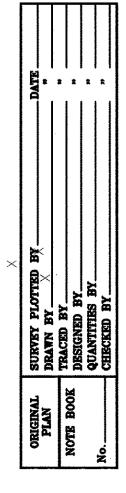
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 4 Fed. Aid Proj. No. CMAQ-0300(95)

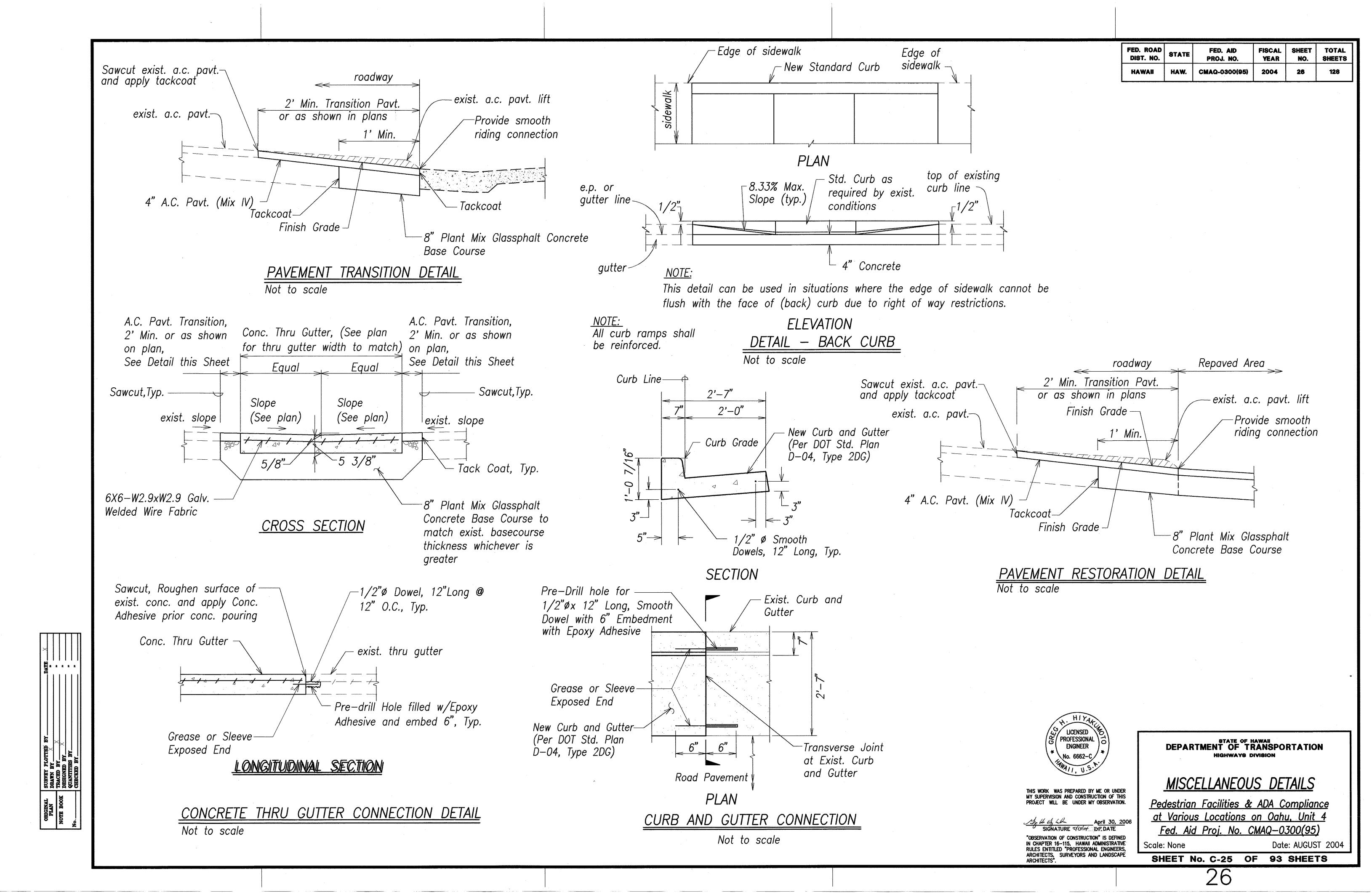
Scale: None

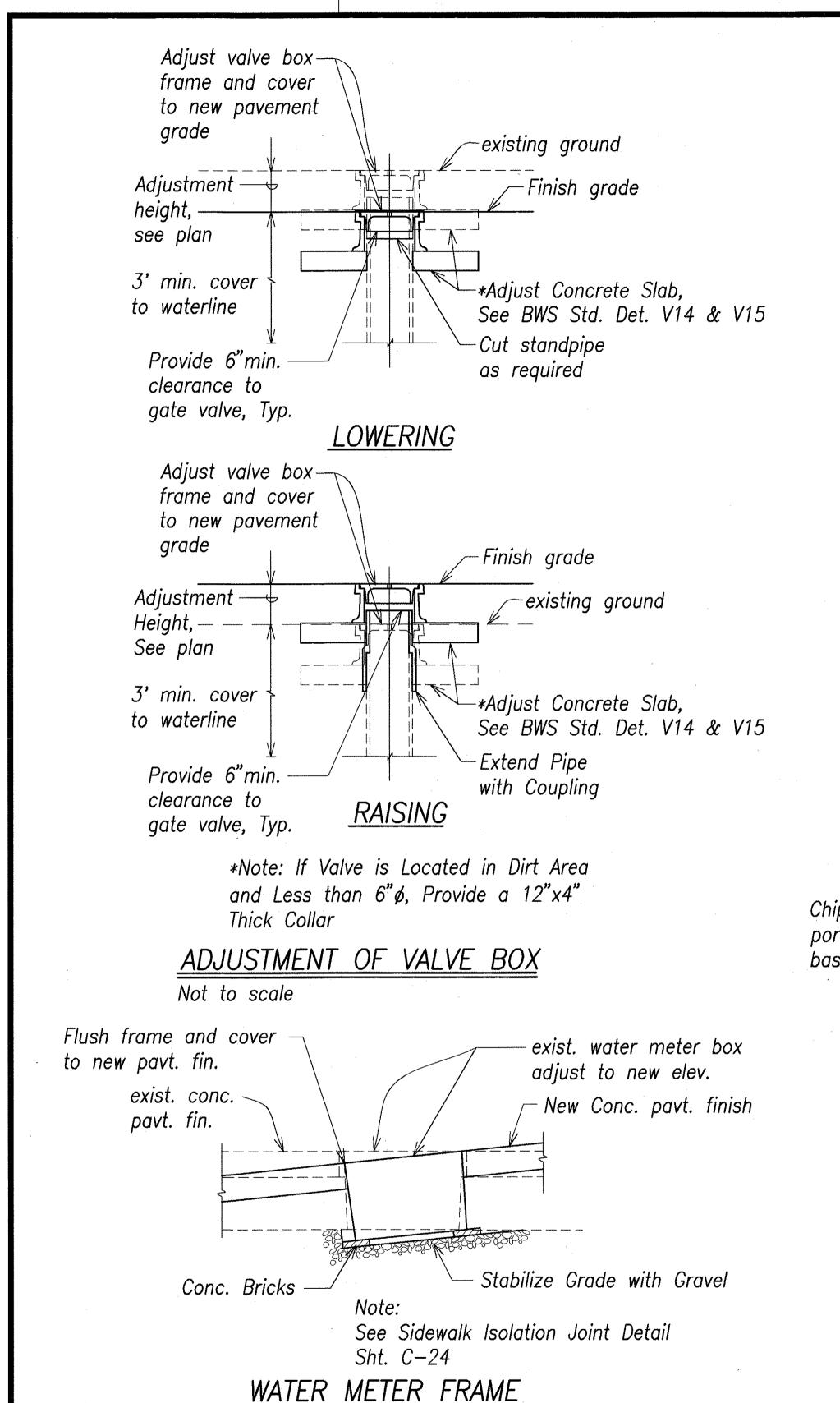
Date: AUGUST 2004

SHEET No. C-24 OF 93 SHEETS







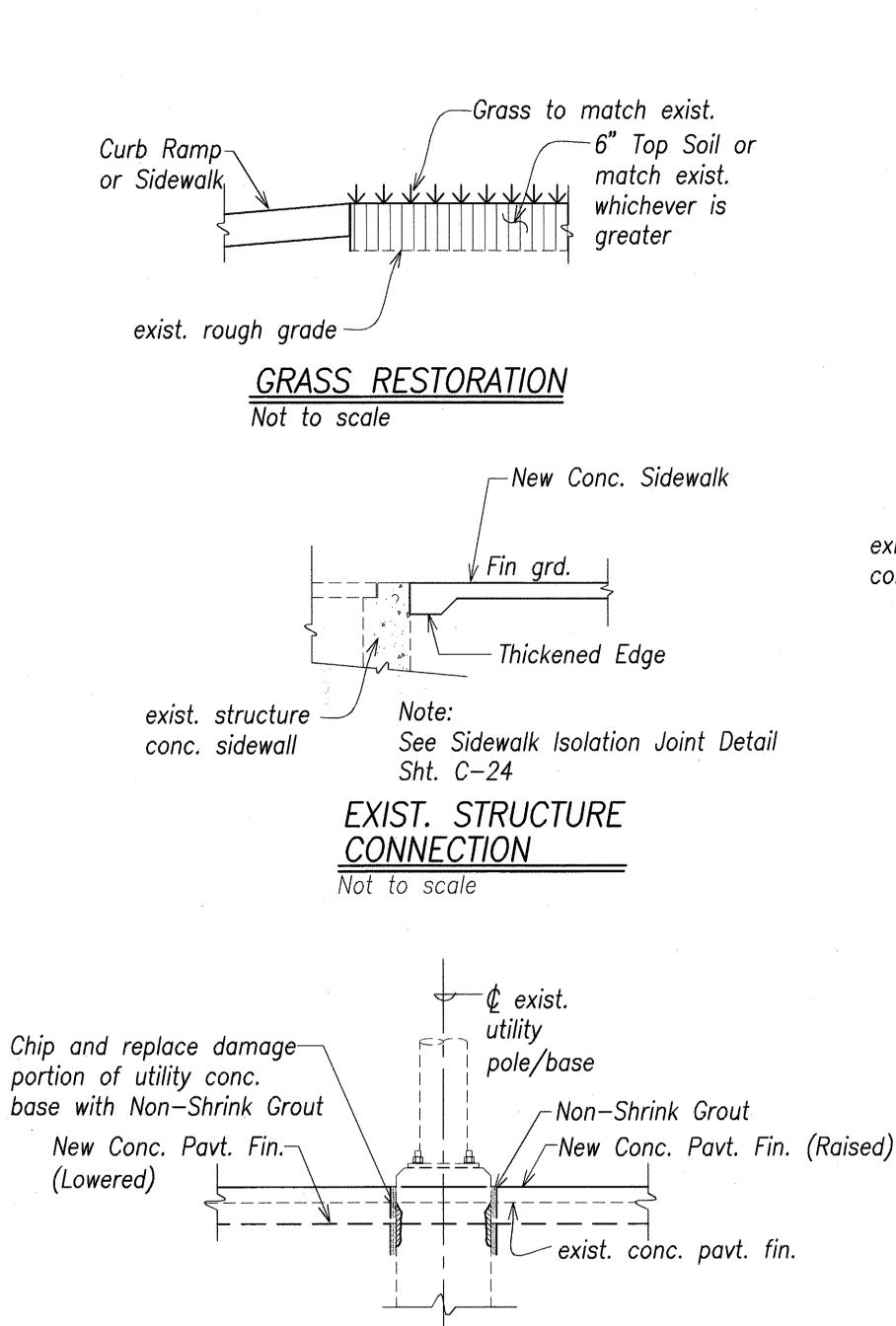


AND COVER ADJUSTMENT

Not to scale

SURVEY PLOTTED
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY

ORIGINAL PLAN NOTE BOOK No.



-6" Top Soil or

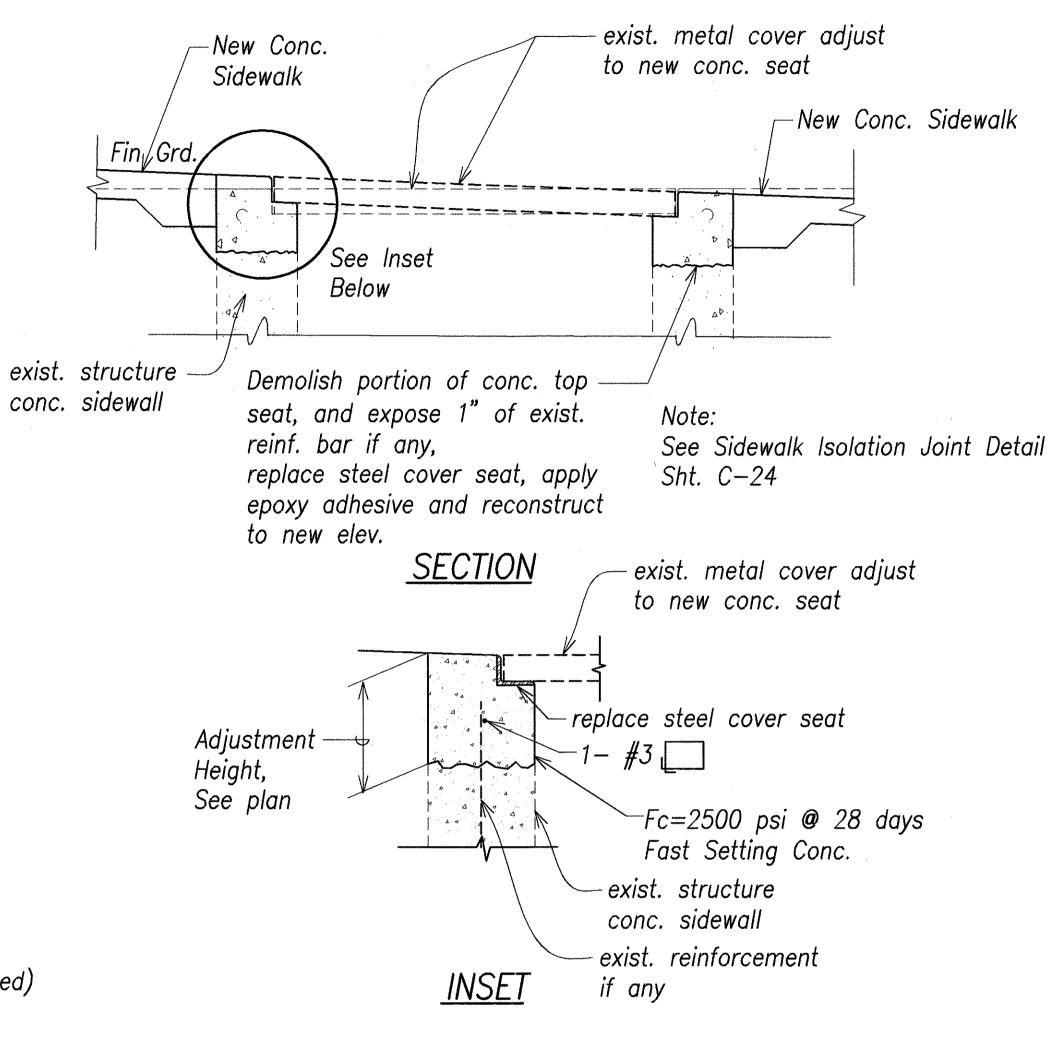
match exist.

whichever is

greater

UTILITY CONC. BASE RESTORATION Not to scale

FISCAL SHEET TOTAL YEAR NO. SHEETS FED. ROAD DIST. NO. FED. AID PROJ. NO. HAWAII HAW. CMAQ-0300(95) 2004 27







THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

April 30, 2006
| SIGNATURE 4/13/04 | BQ DATE

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16–115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

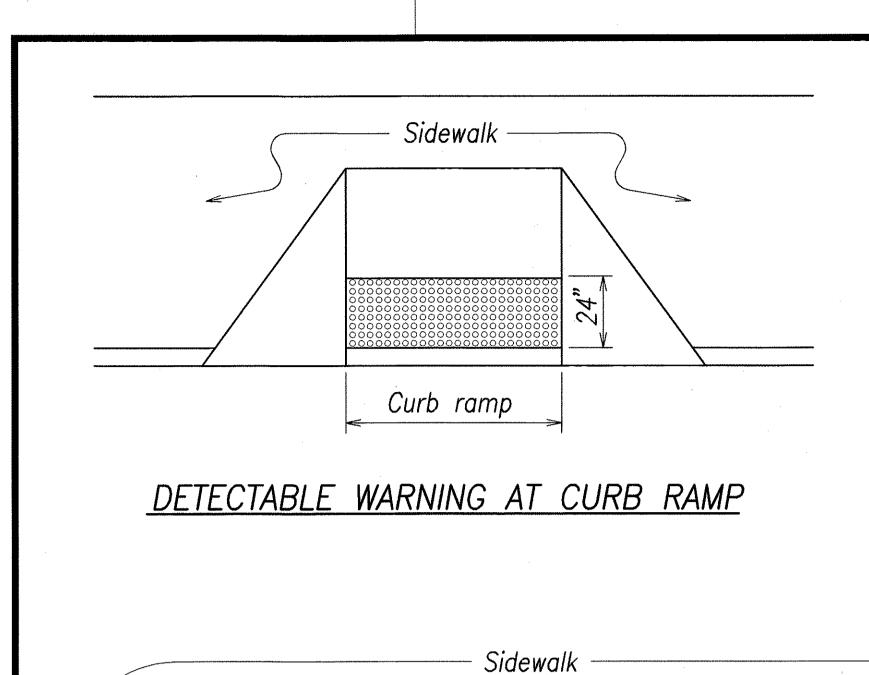
DEPARTMENT OF TRANSPORTATION

UTILITY DETAILS

Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 4

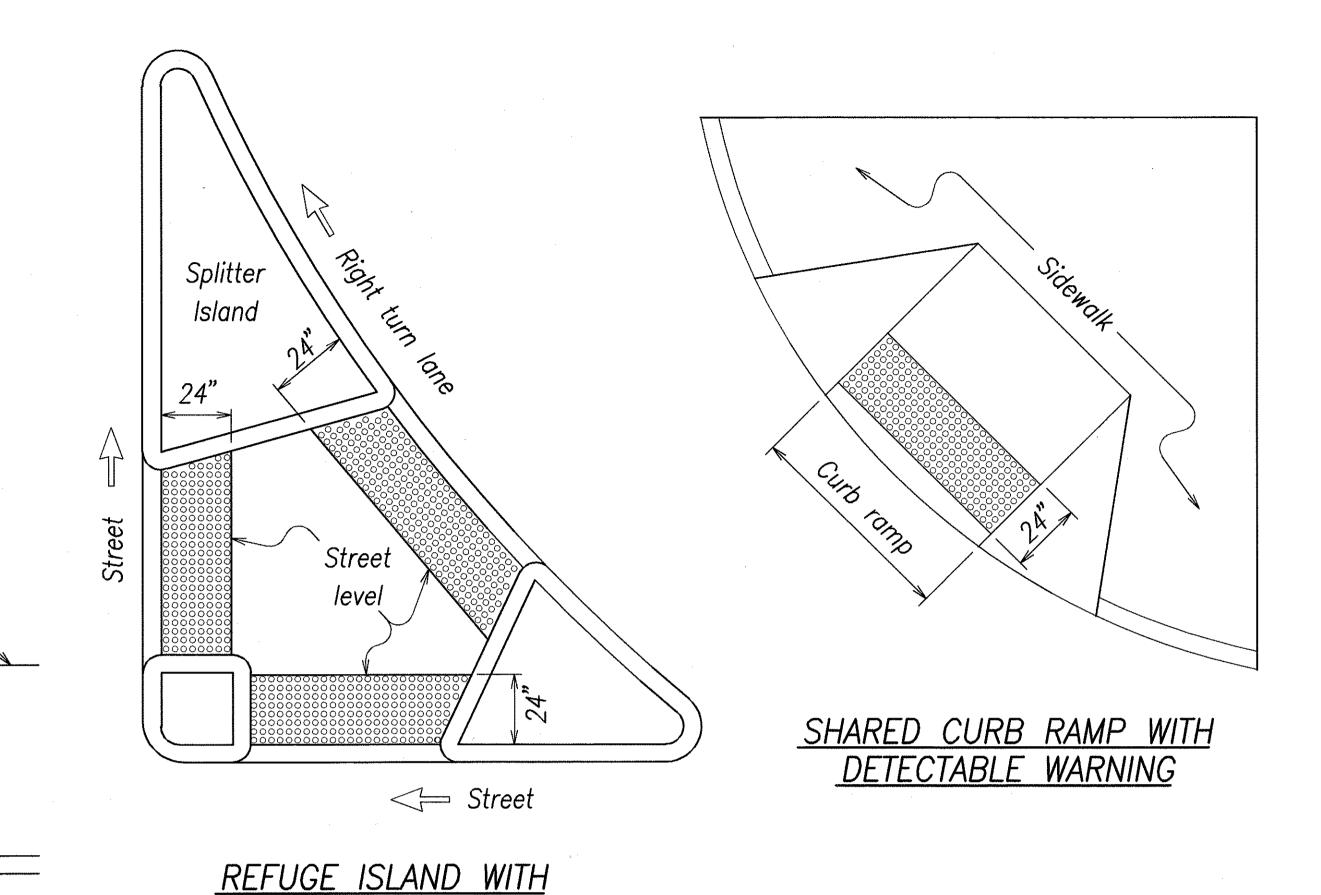
Fed. Aid Proj. No. CMAQ-0300(95) Scale: NONE Date: AUGUST 2004

SHEET No. C-26 OF 93 SHEETS



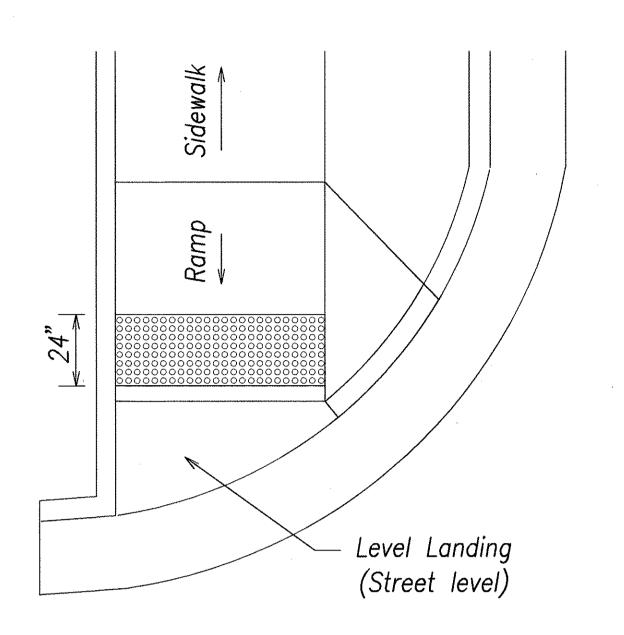
TRANSITION RAMP WITH DETECTABLE WARNING

Curb ramp



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

HAWAII HAW. CMAQ-0300(95) 2004 28 128



END OF SIDEWALK CURB RAMP WITH DETECTABLE WARNING

TYPICAL INSTALLATION OF DETECTABLE WARNINGS

Not to Scale

DETECTABLE WARNING

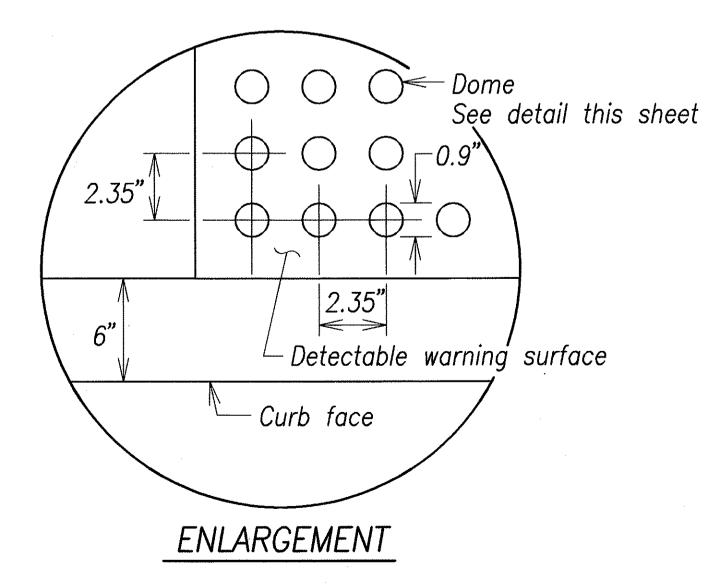
NOTES:

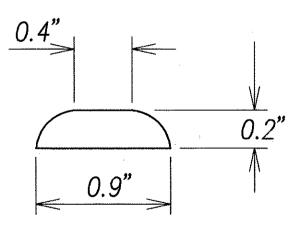
Ramp

- 1. Detectable warnings shall be 24 inches in the direction of travel and extend the full width of the curb ramp or flush surface (does not include flares).
- 2. Truncated domes shall have a diameter of 0.9 inch at the bottom, a diameter of 0.4 inch at the top, a height of 0.2 inch and a center—to—center spacing of 2.35 inches measured along one side of a square arrangement.

Ramp

- 3. Domes shall be aligned on a square grid in the predominant direction of travel to permit wheels to roll between the domes.
- 4. The detectable warning shall be "safety yellow".
- 5. The material used to provide visual contrast shall be an integral part of the detectable warning surface.
- 6. The detectable warning shall be located so that the edge nearest the curb line or other potential hazard is 6 inches from the curb line.





DOME SECTION

LICENSED PROFESSIONAL ENGINEER
No. 6662-C

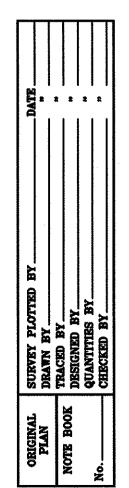
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETECTABLE WARNING DETAILS

Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 4 Fed. Aid Proj. No. CMAQ-0300(95)

Fed. Aid Proj. No. CMAQ-0300(95)
Scale: None Date: AUGUST 2004

SHEET No. C-27 OF 93 SHEETS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

April 30, 2006
SIGNATURE **CLOSED EXP.DATE**

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16–115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

