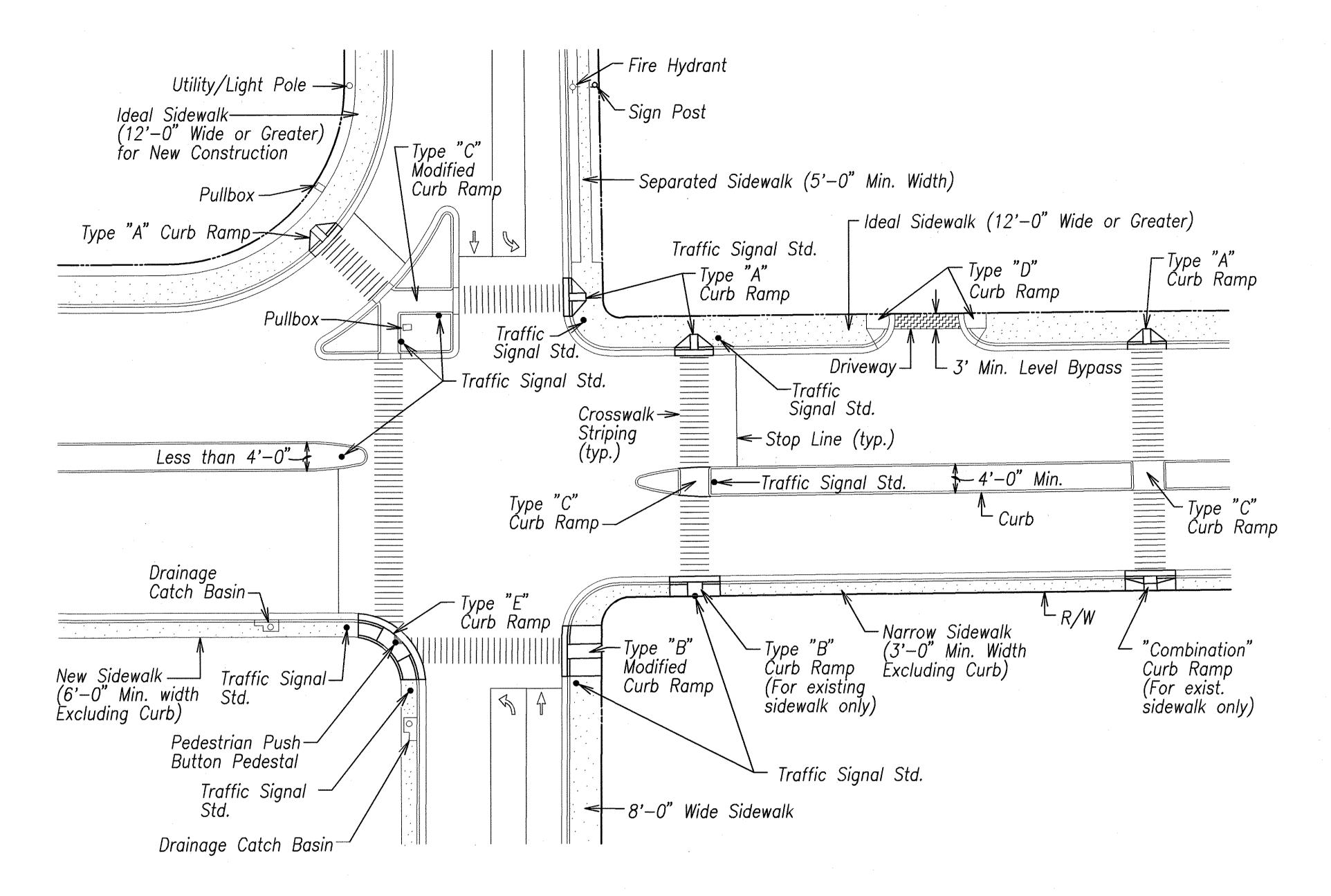
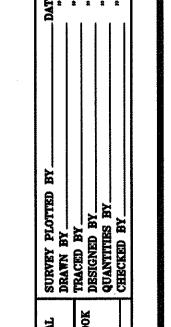
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(93)	2004	19	171



TYPICAL CURB RAMPS





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SIGNATURE FILE EXP DATE

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

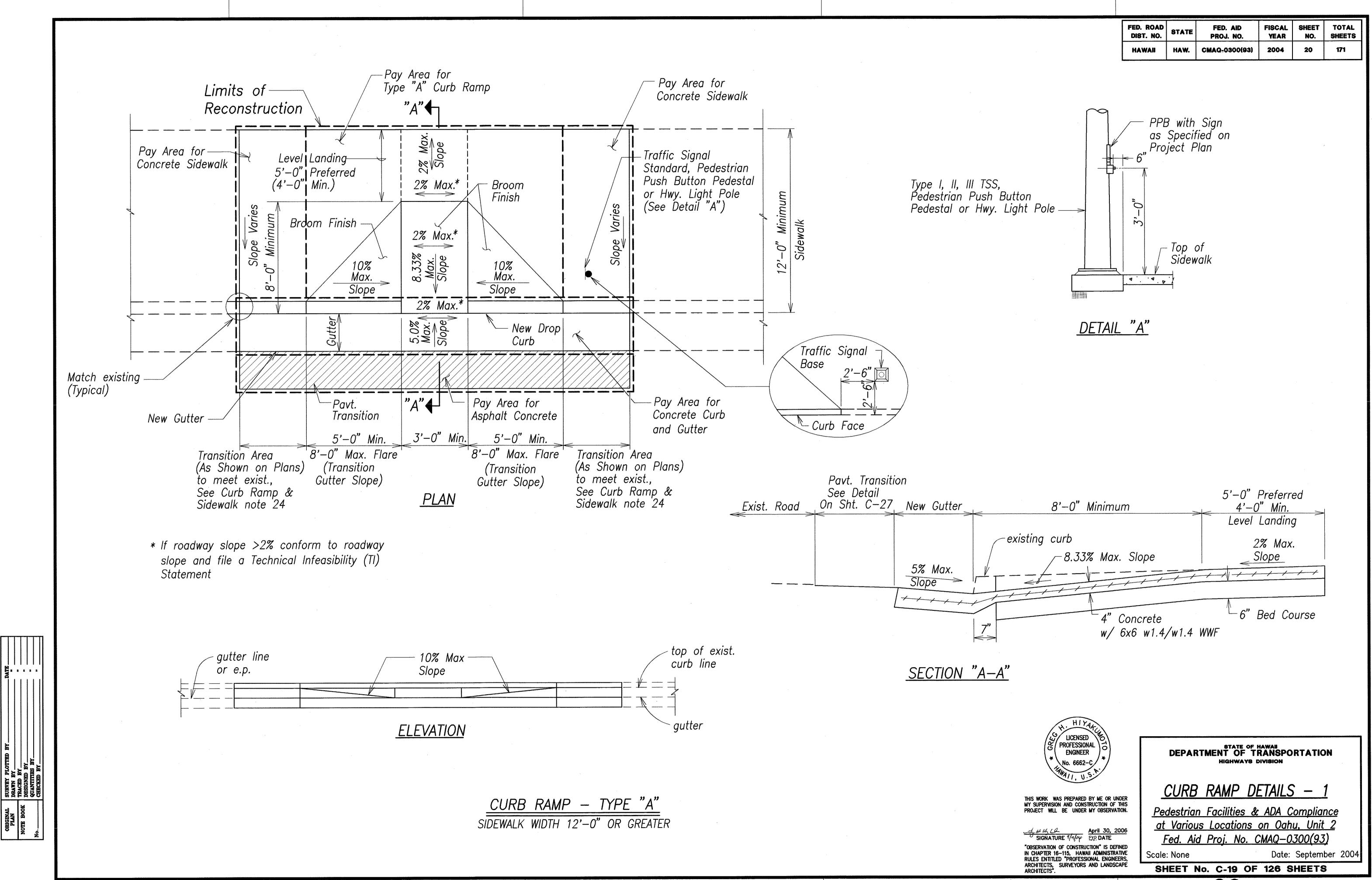
DEPARTMENT OF TRANSPORTATION

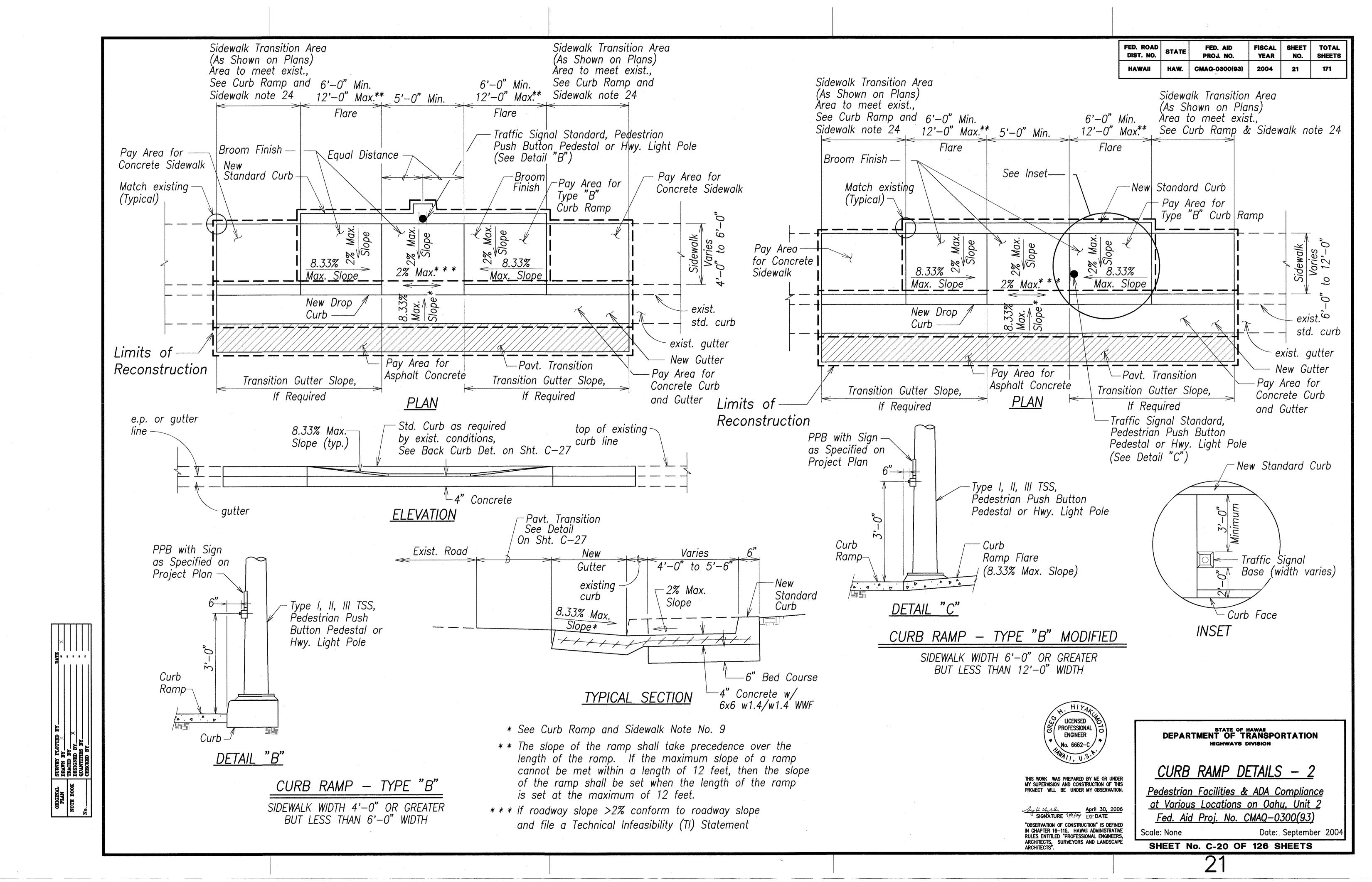
TYPICAL CURB RAMP LAYOUT

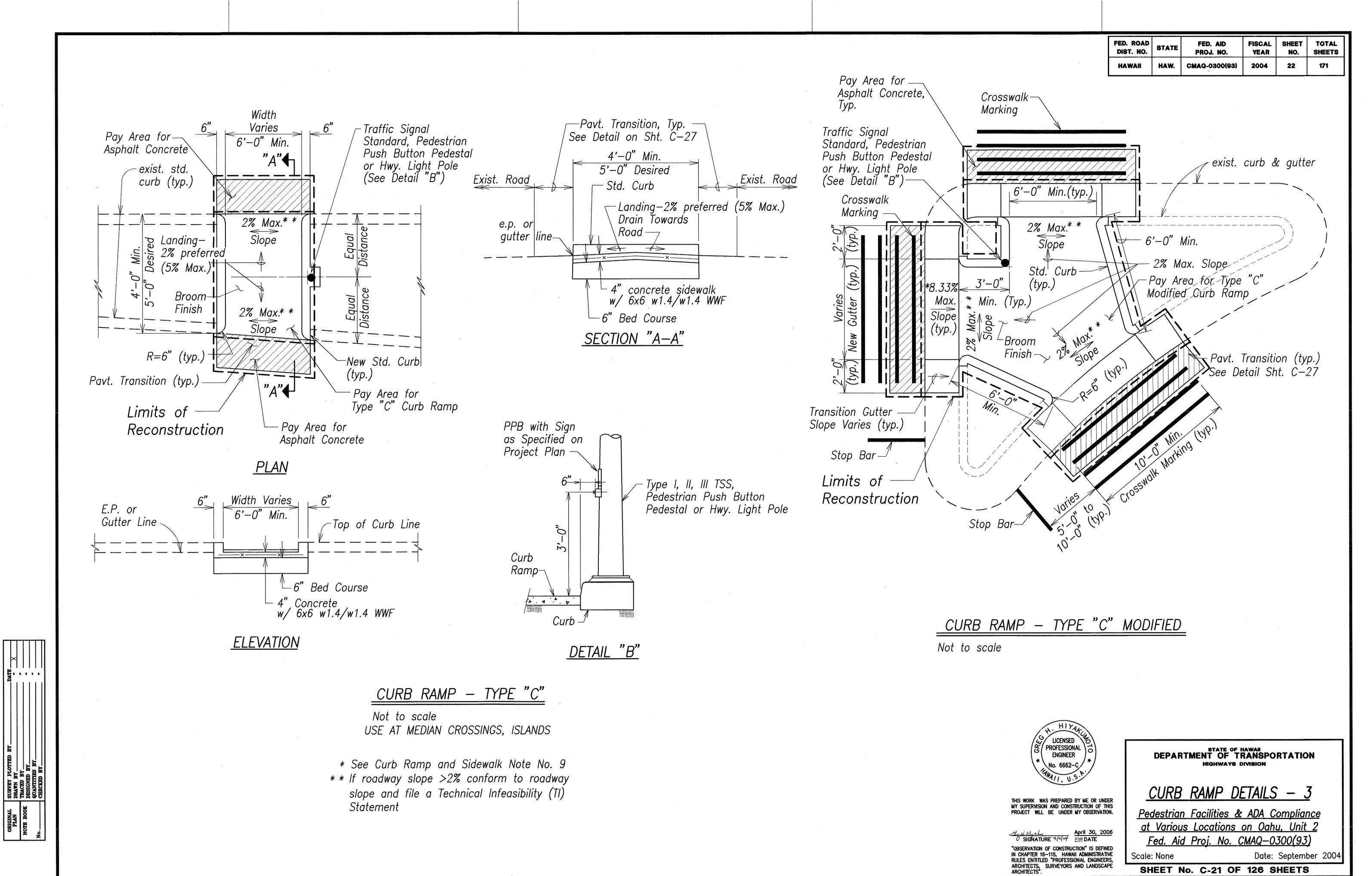
<u>Pedestrian Facilities & ADA Compliance</u> <u>at Various Locations on Oahu, Unit 2</u> <u>Fed. Aid Proj. No. CMAQ-0300(93)</u>

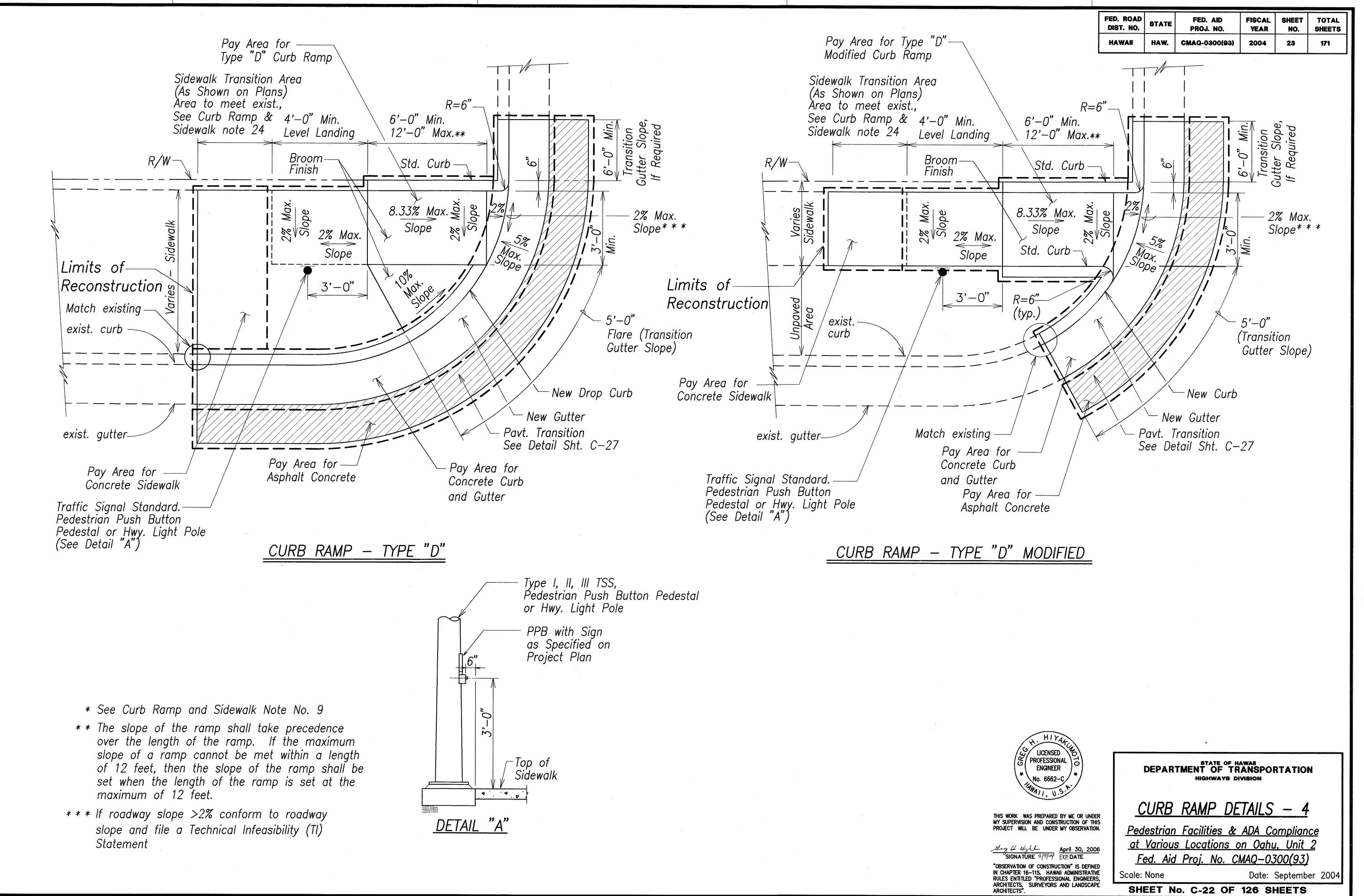
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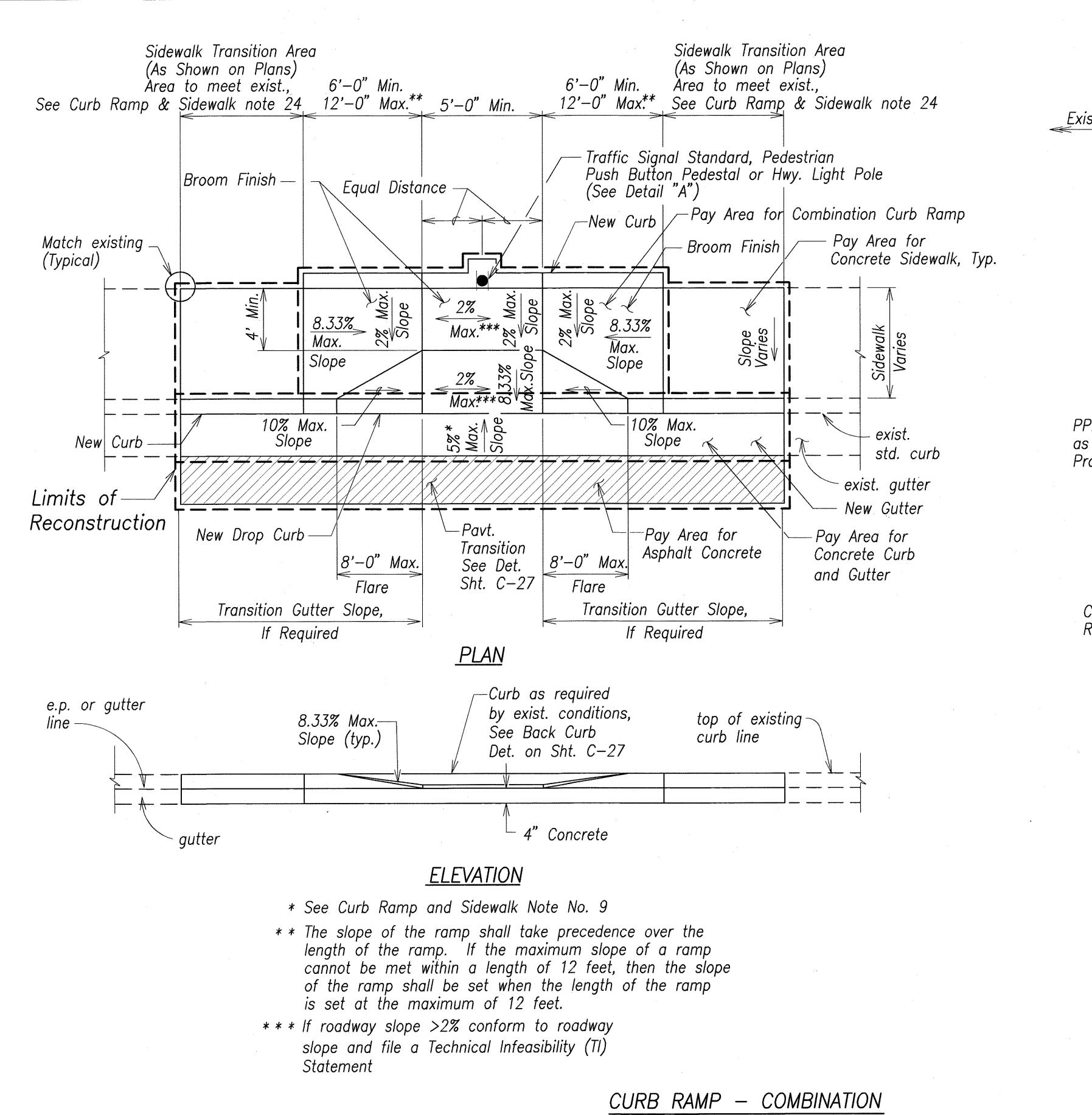
Date: September 2004





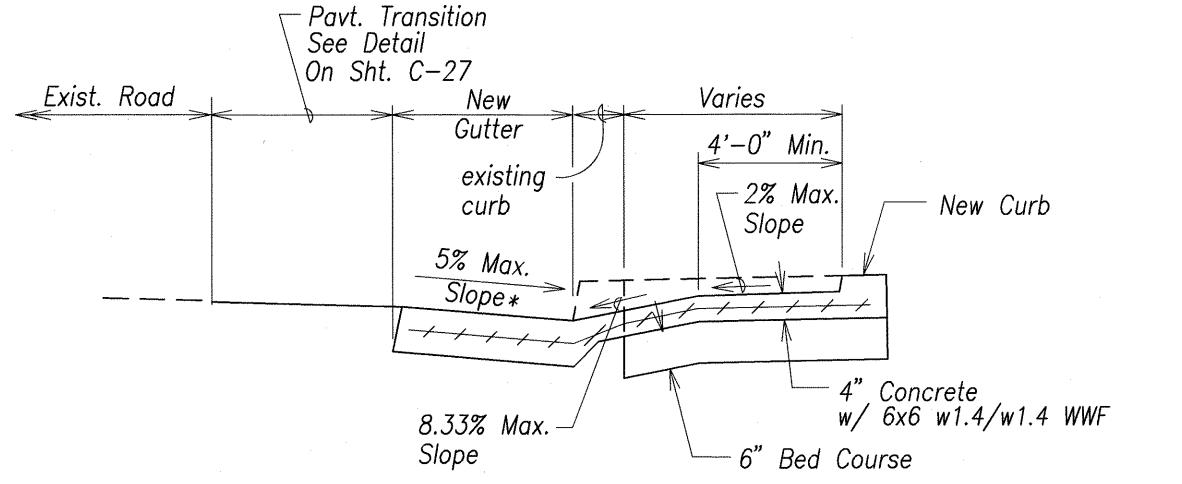






FED. ROAD DIST. NO. STATE FED. AID PROJ. NO. FISCAL SHEET TOTAL SHEETS

HAWAII HAW. CMAQ-0300(93) 2004 24 171



TYPICAL SECTION

PPB with Sign as Specified on Type I, II, III TSS, Pedestrian Push Button Pedestal or Hwy. Light Pole

Curb

Ramp

Curb

DETAIL "A"



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April 30, 2006
SIGNATURE 19/04 EXP DATE

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DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS - 5

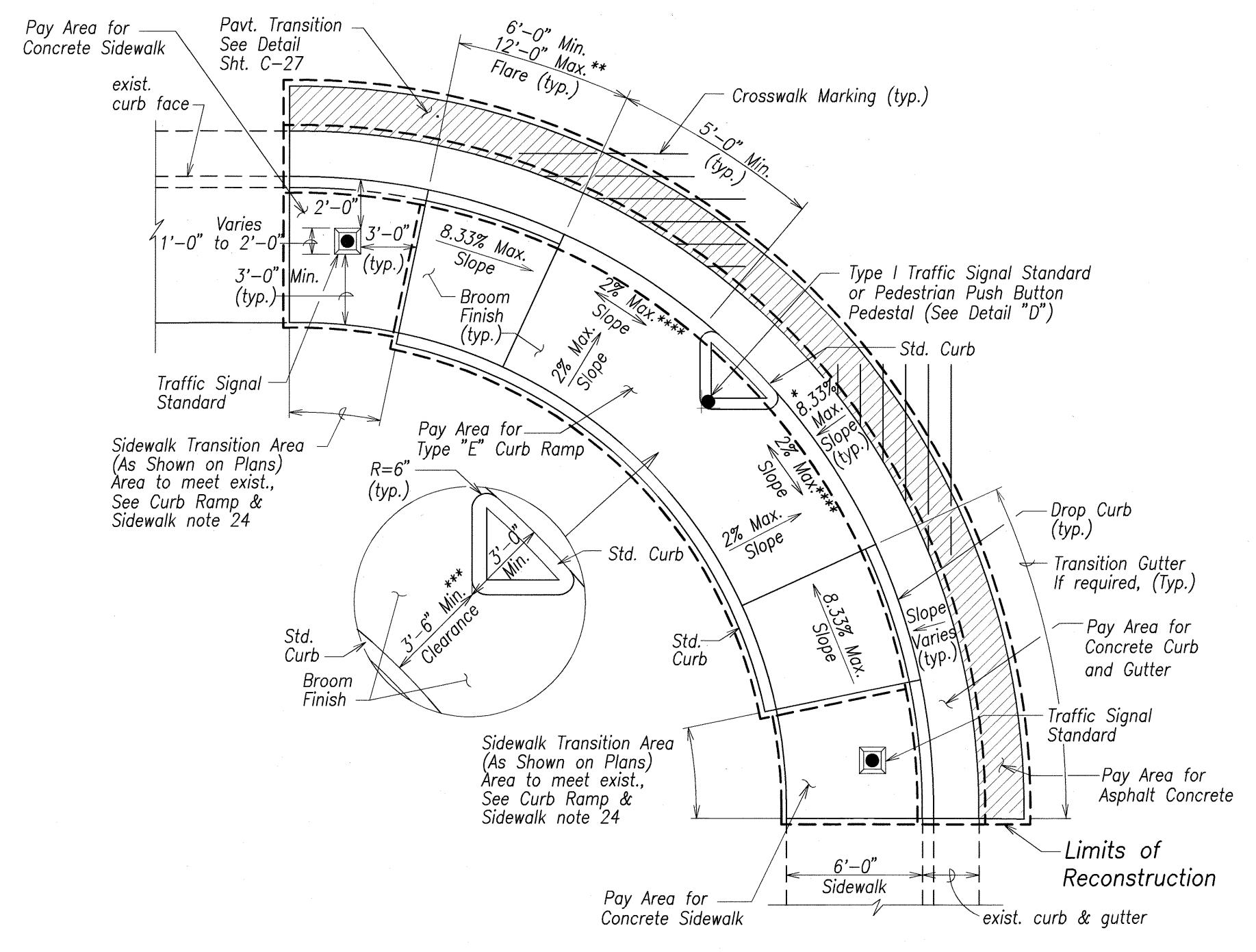
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 2 Fed. Aid Proj. No. CMAQ-0300(93)

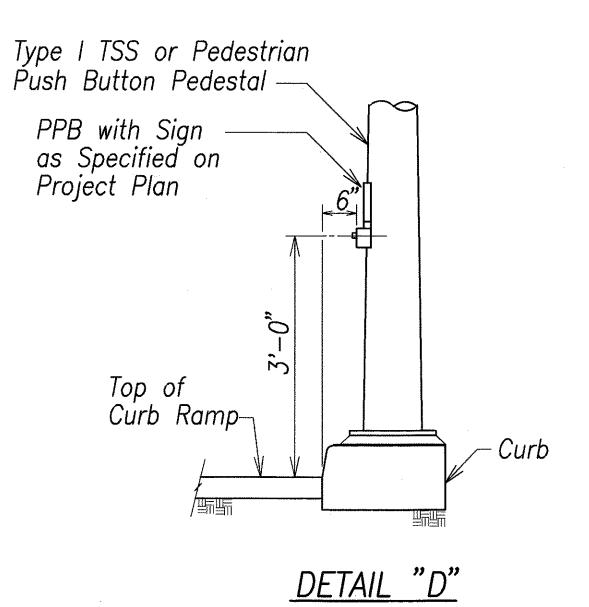
Scale: None

Date: September 2004

SHEET No. C-23 OF 126 SHEETS

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	CMAQ-0300(93)	2004	25	171





- * See Curb Ramp and Sidewalk Note No. 9 Sht. C-6
- * * 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.

CURB RAMP - TYPE "E"

SIDEWALK WIDTH 7'-0" OR GREATER

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



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12 H USC April 30, 2006
| SIGNATURE 9/9/04 | 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

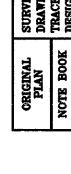
CURB RAMP DETAILS — 6

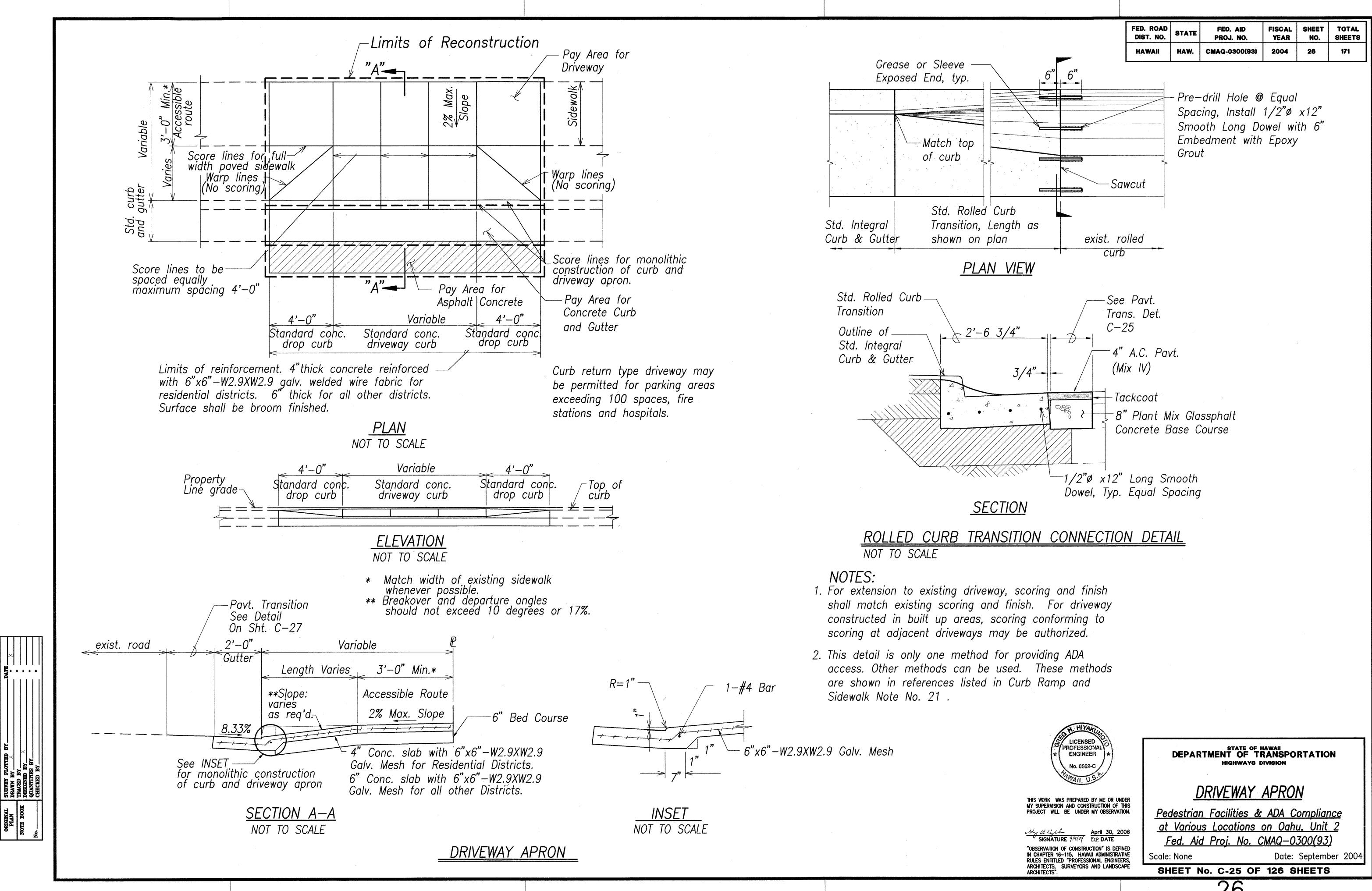
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 2 Fed. Aid Proj. No. CMAQ-0300(93)

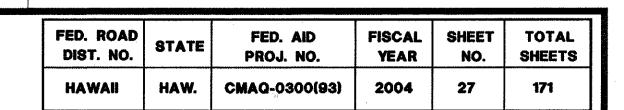
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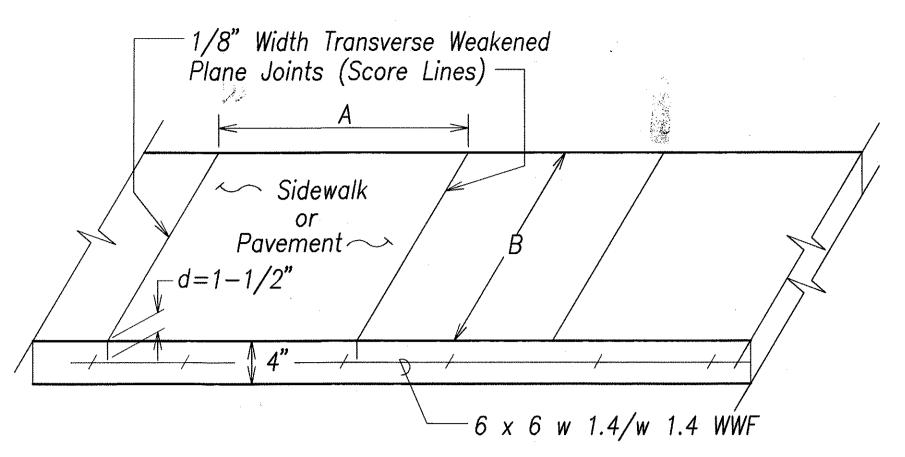
Date: September 2004

SHEET No. C-24 OF 126 SHEETS









Note: A = 6' if $B \le 8$ '.

If B > 8', Add Longitudinal Joint

SIDEWALK SCORE LINE DETAIL

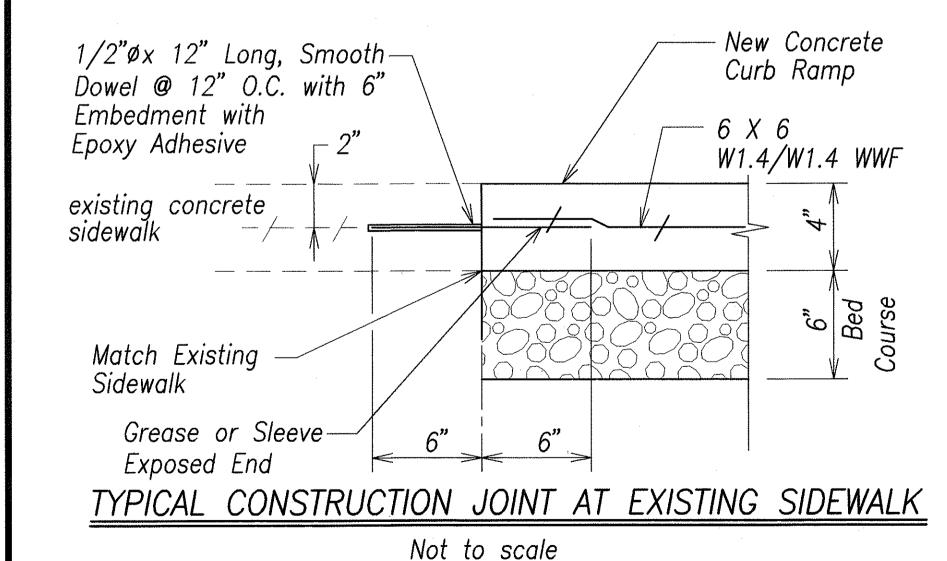
existing handhole, pullbox, etc. (cover)

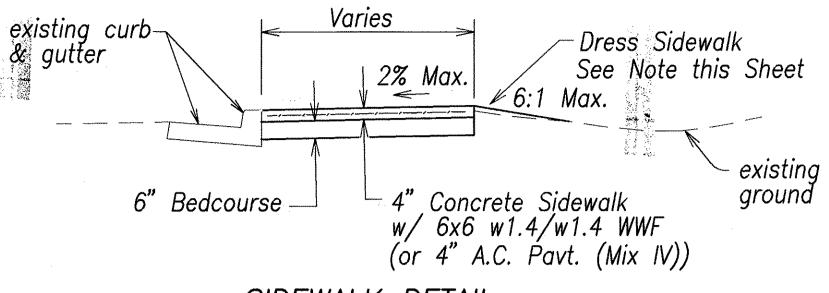
1/4" Joint Filler

Transverse Joints

SIDEWALK ISOLATION JOINT DETAIL

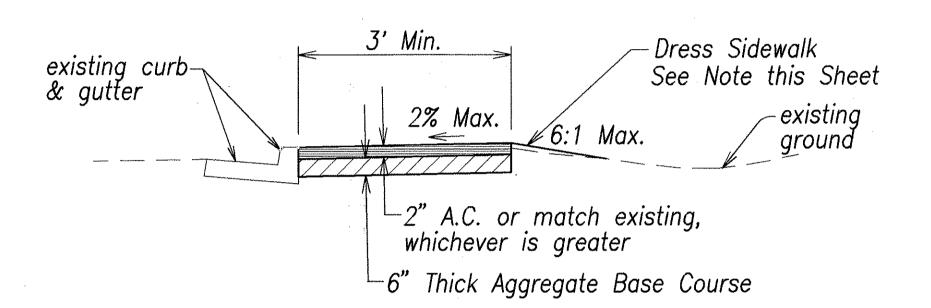
Not to scale





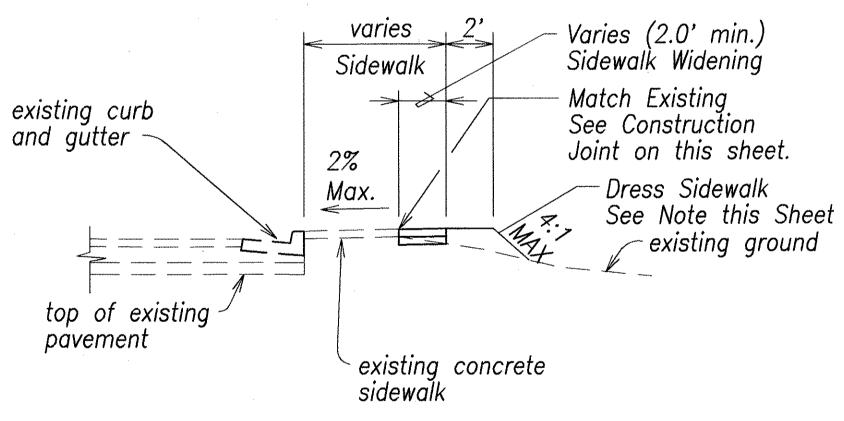
SIDEWALK DETAIL

Not to scale



A.C. SIDEWALK DETAIL

Not to scale

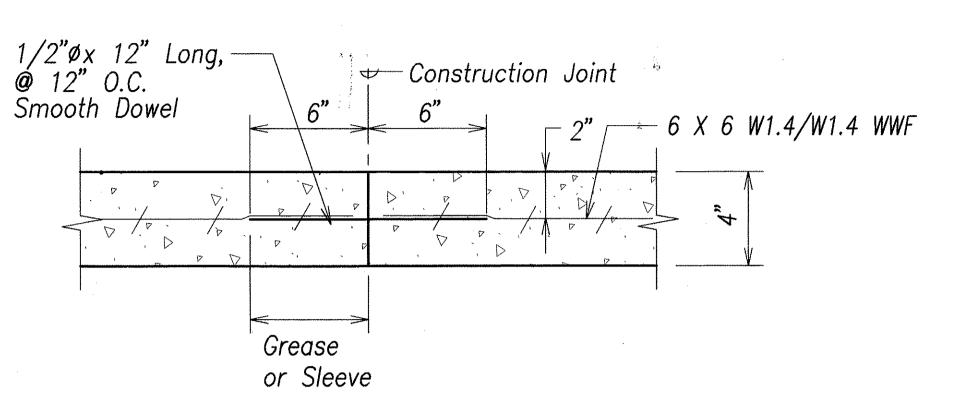


SIDEWALK WIDENING SECTION

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.



TRANSVERSE CONSTRUCTION JOINT DETAIL

Not to scale



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SIGNATURE PLACE

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DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAILS

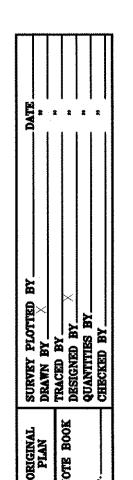
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 2 Fed. Aid Proj. No. CMAQ-0300(93)

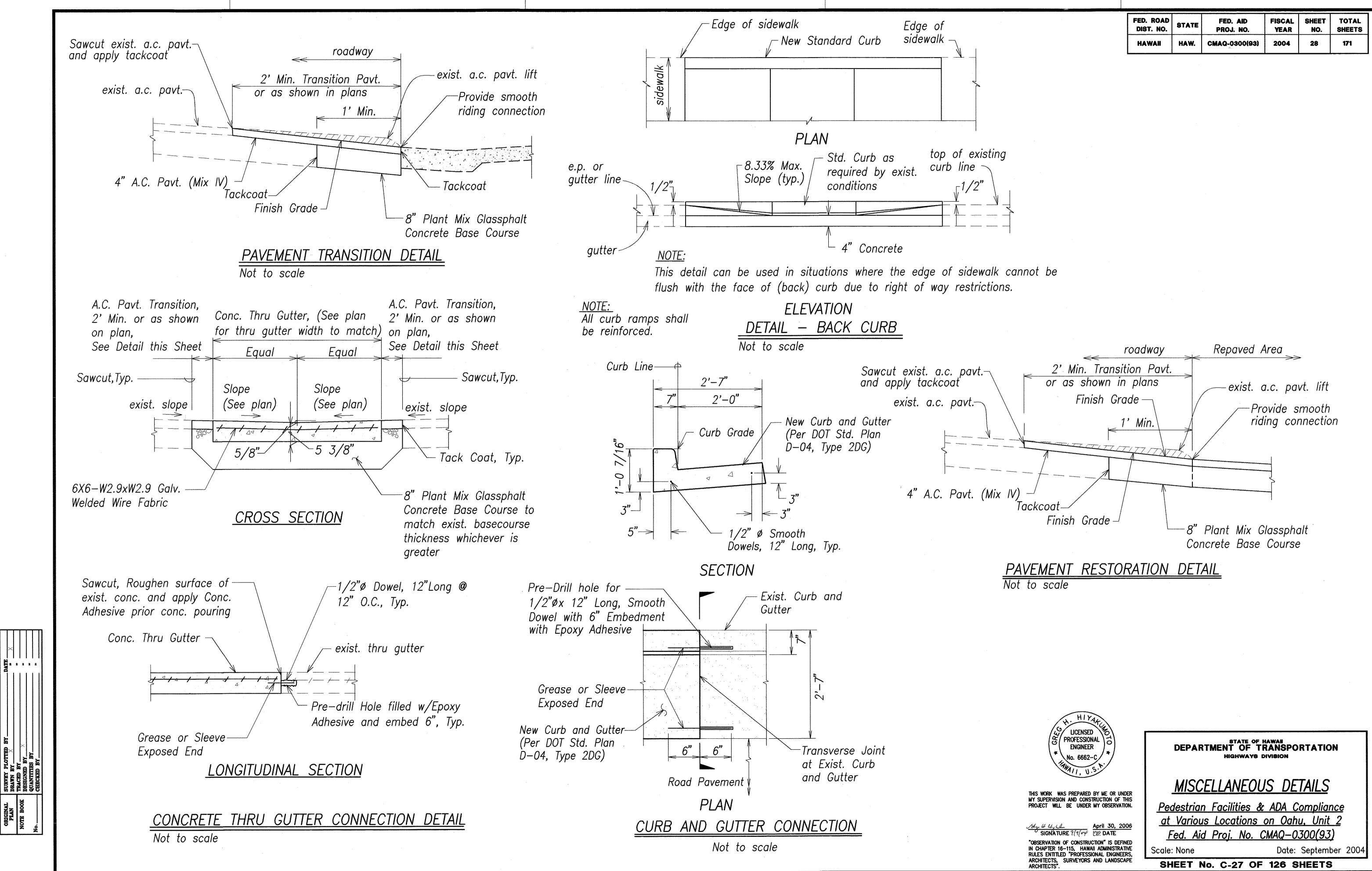
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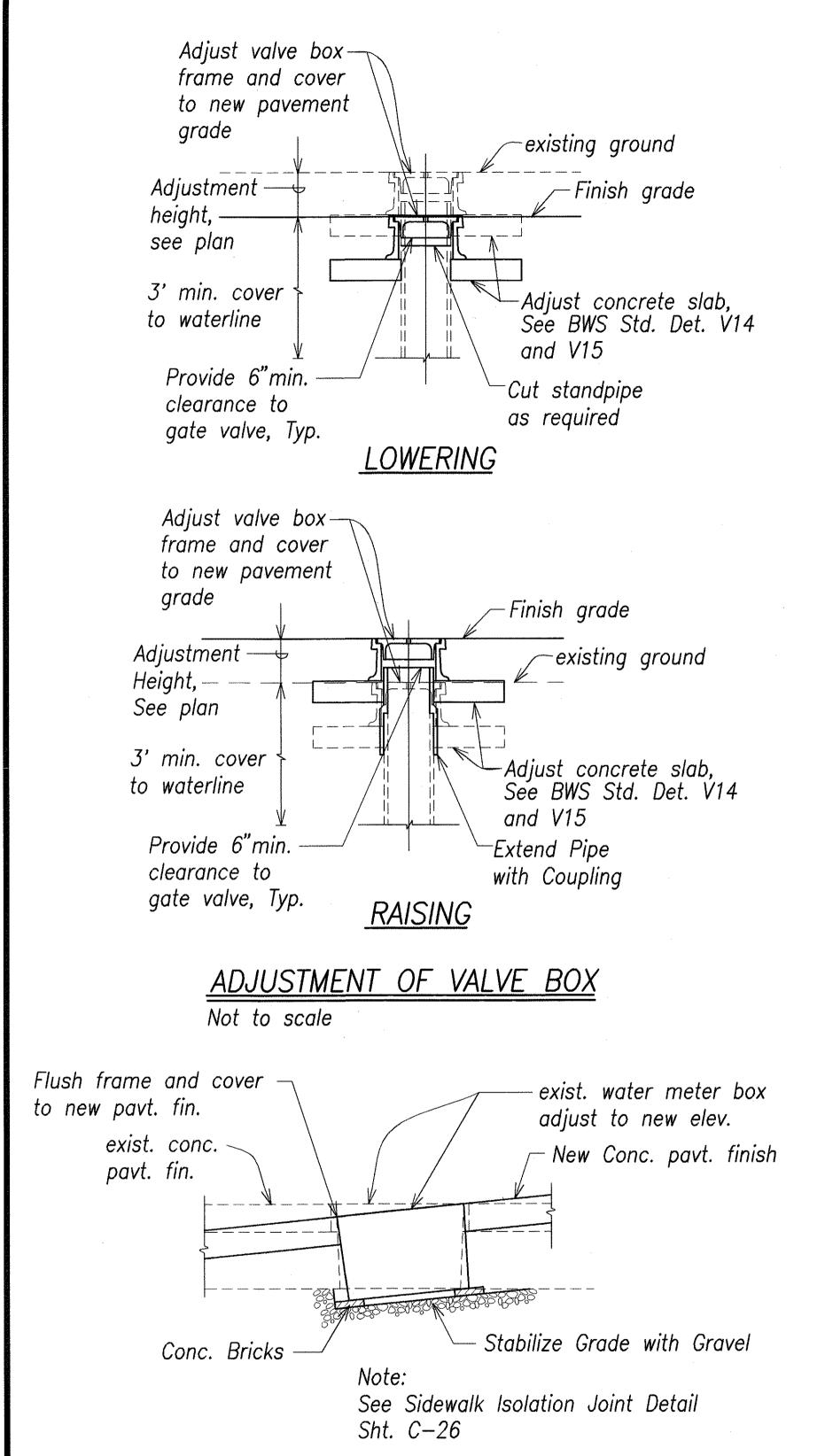
Date: September 2004

SHEET No. C-26 OF 126 SHEETS







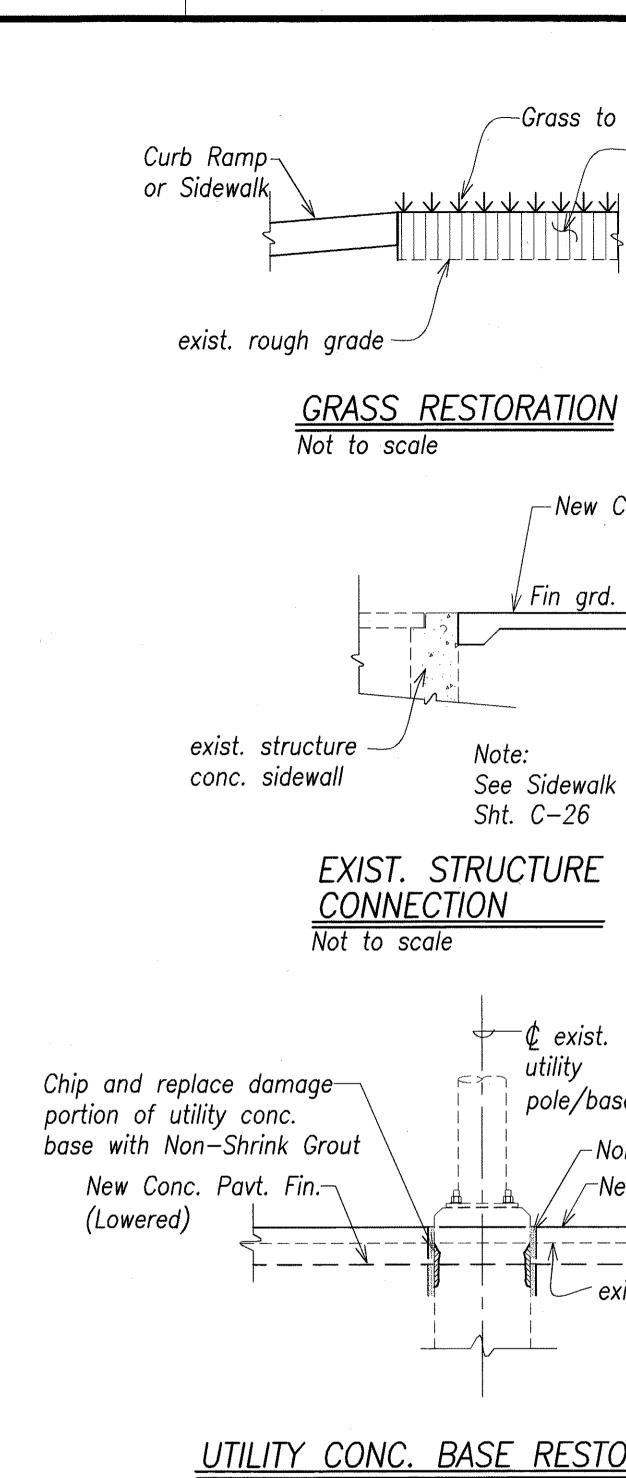


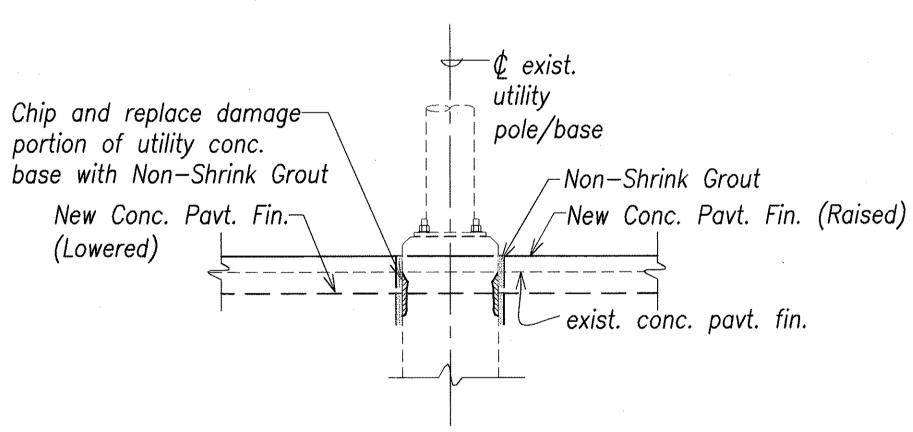
WATER METER FRAME

Not to scale

ORIGINAL PLAN NOTE BOOK

AND COVER ADJUSTMENT





Note:

EXIST. STRUCTURE

CONNECTION

Not to scale

Sht. C−*26*

-Grass to match exist.

6" Top Soil or

match exist.

whichever is

greater

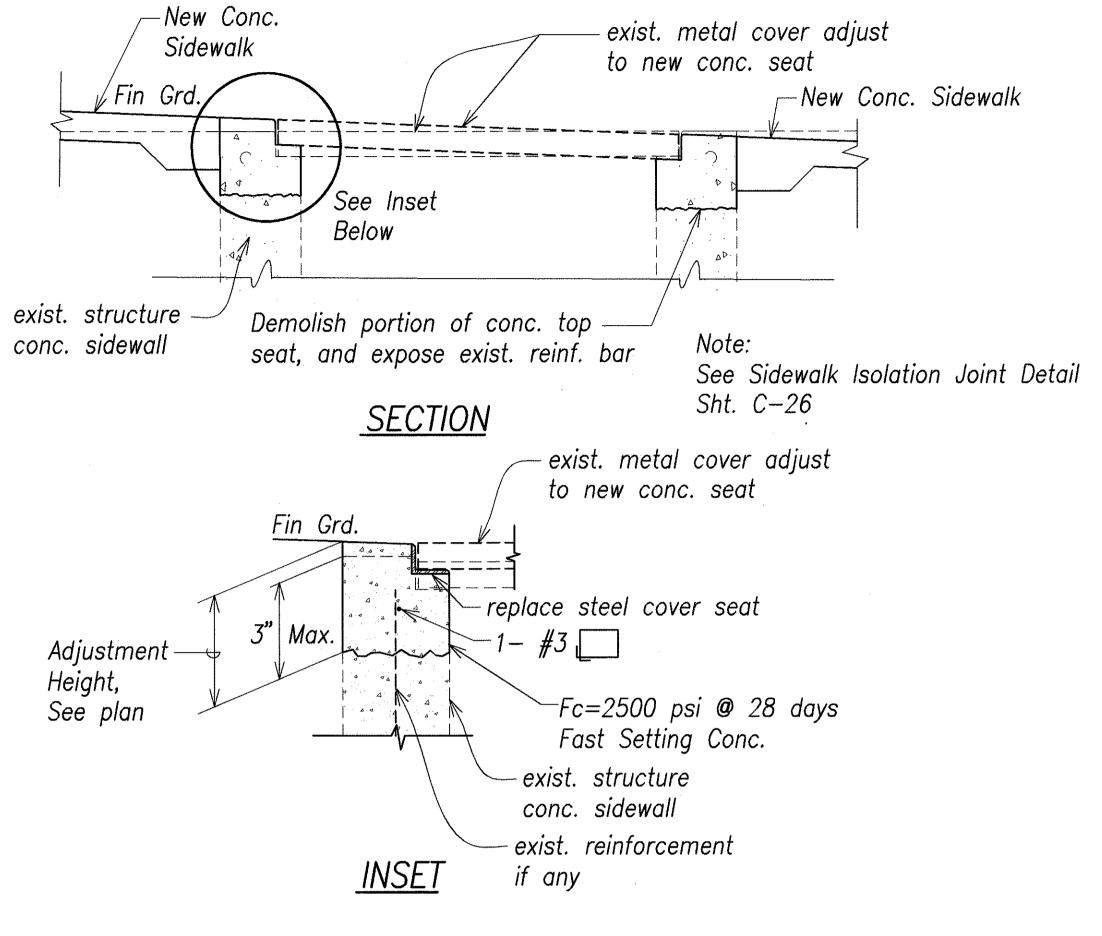
-New Conc. Sidewalk

See Sidewalk Isolation Joint Detail

Fin grd.

UTILITY CONC. BASE RESTORATION Not to scale

FED. ROAD DIST. NO. FISCAL SHEET TOTAL YEAR NO. SHEETS FED. AID PROJ. NO. HAW. 2004 HAWAII CMAQ-0300(93) 29



EXIST. VALVE BOX FRAME AND COVER ADJUSTMENT Not to scale



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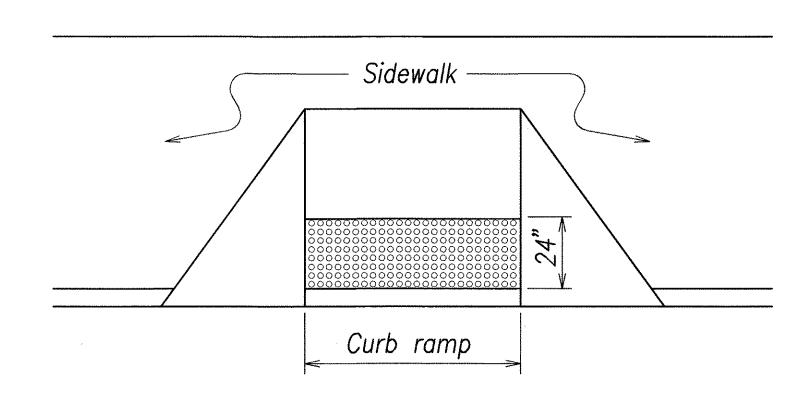
SIGNATURE 9/9/04 EXP DATE "OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16–115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS". DEPARTMENT OF TRANSPORTATION

UTILITY DETAILS

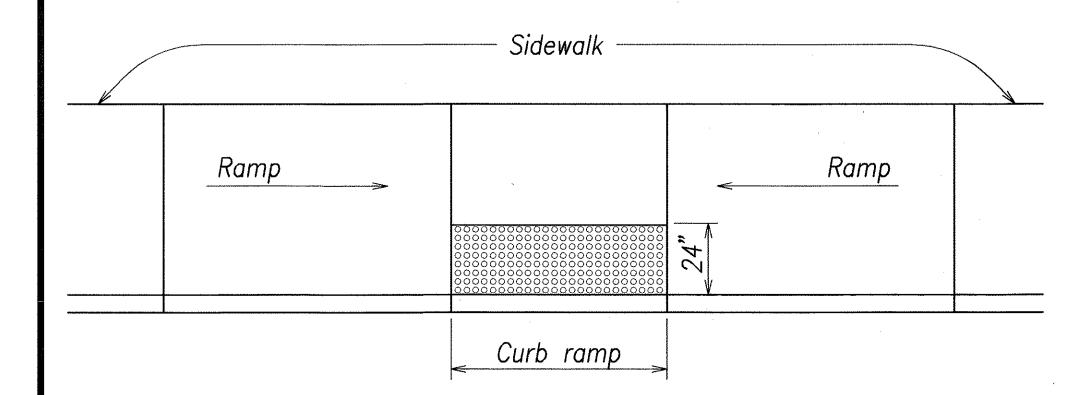
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 2 Fed. Aid Proj. No. CMAQ-0300(93)

Scale: XX Date: September 2004

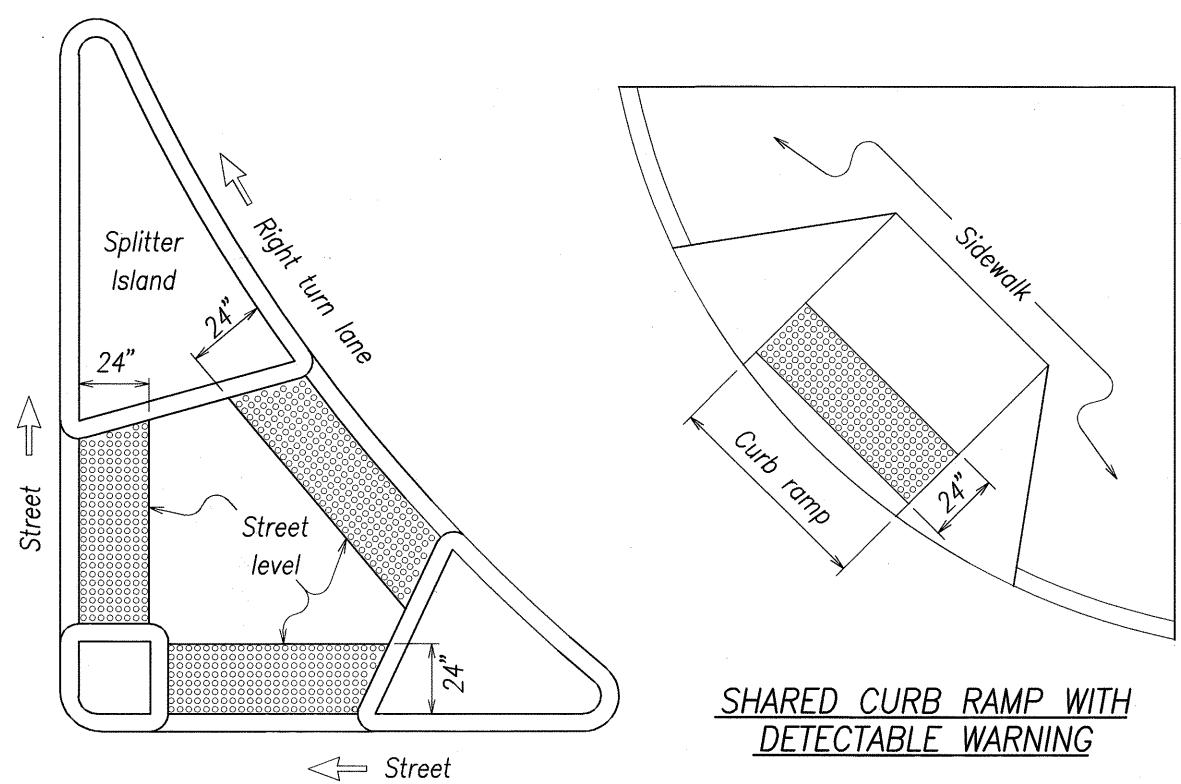
SHEET No. C-28 OF 126 SHEETS



DETECTABLE WARNING AT CURB RAMP



TRANSITION RAMP WITH DETECTABLE WARNING



REFUGE ISLAND WITH DETECTABLE WARNING END OF SIDEWALK CURB RAMP WITH DETECTABLE WARNING

Ramp

FISCAL YEAR

2004

Level Landing

(Street level)

FED. AID PROJ. NO.

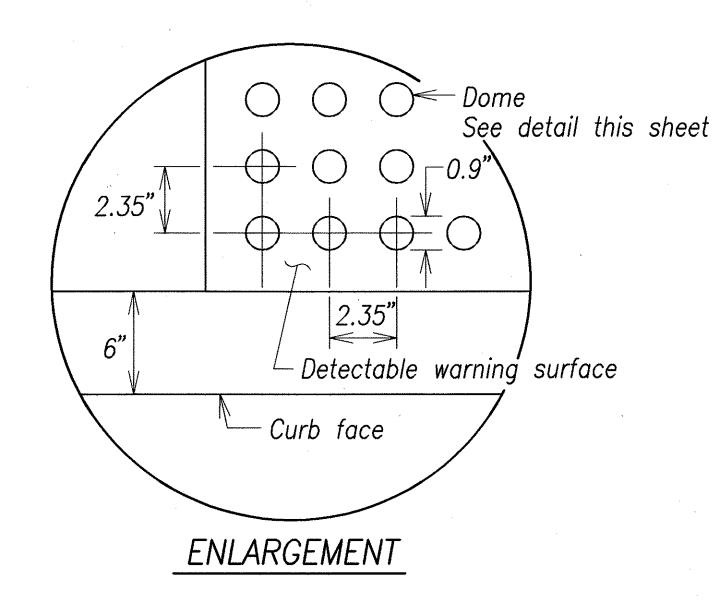
CMAQ-0300(93)

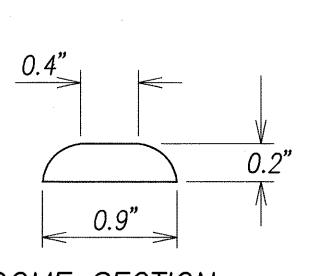
TYPICAL INSTALLATION OF DETECTABLE WARNINGS

Not to Scale

NOTES:

- 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.
- 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

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETECTABLE WARNING DETAILS

Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 2 Fed. Aid Proj. No. CMAQ-0300(93)

Date: September 2004 Scale: None

SHEET No. C-29 OF 126 SHEETS

