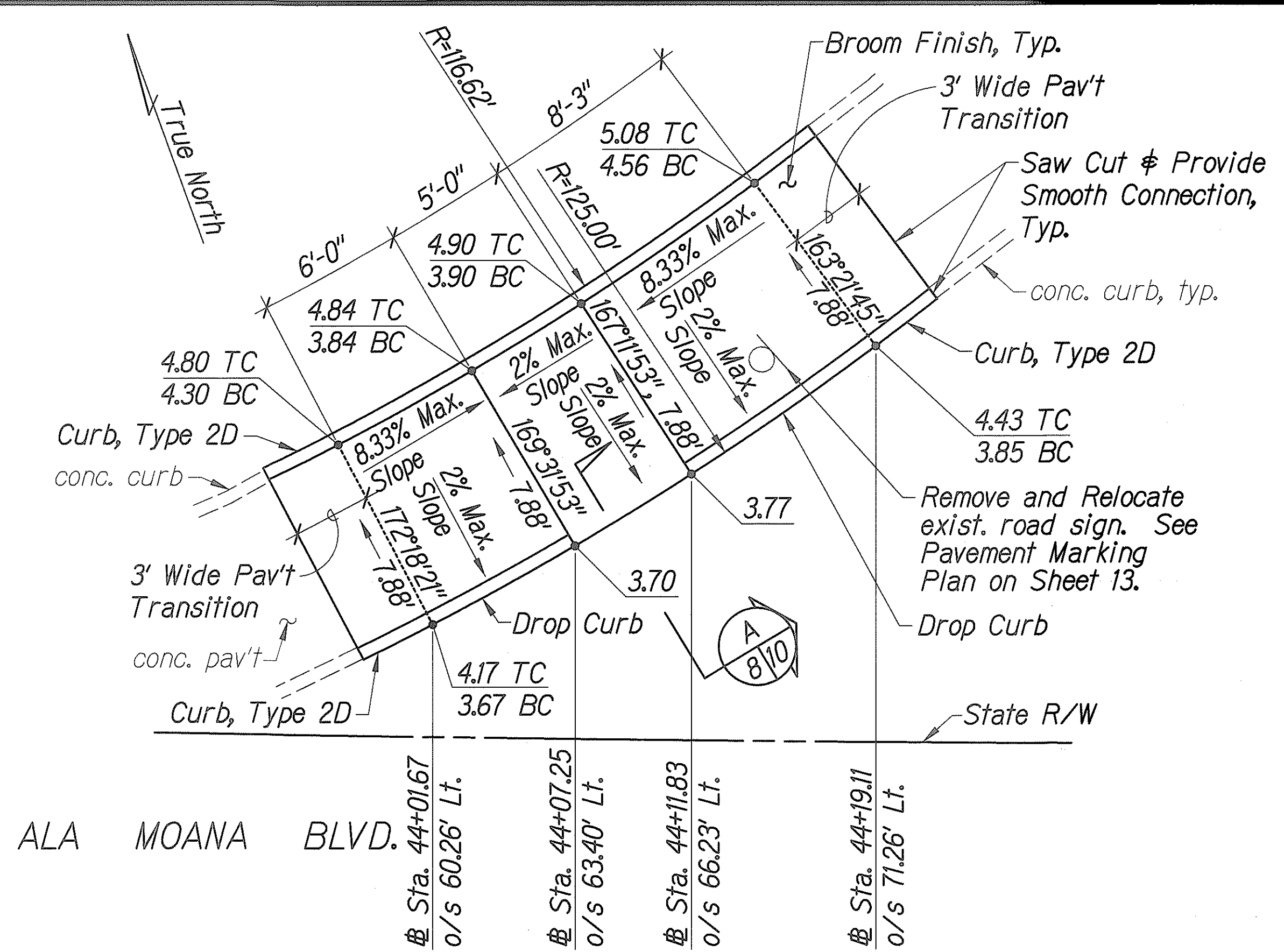
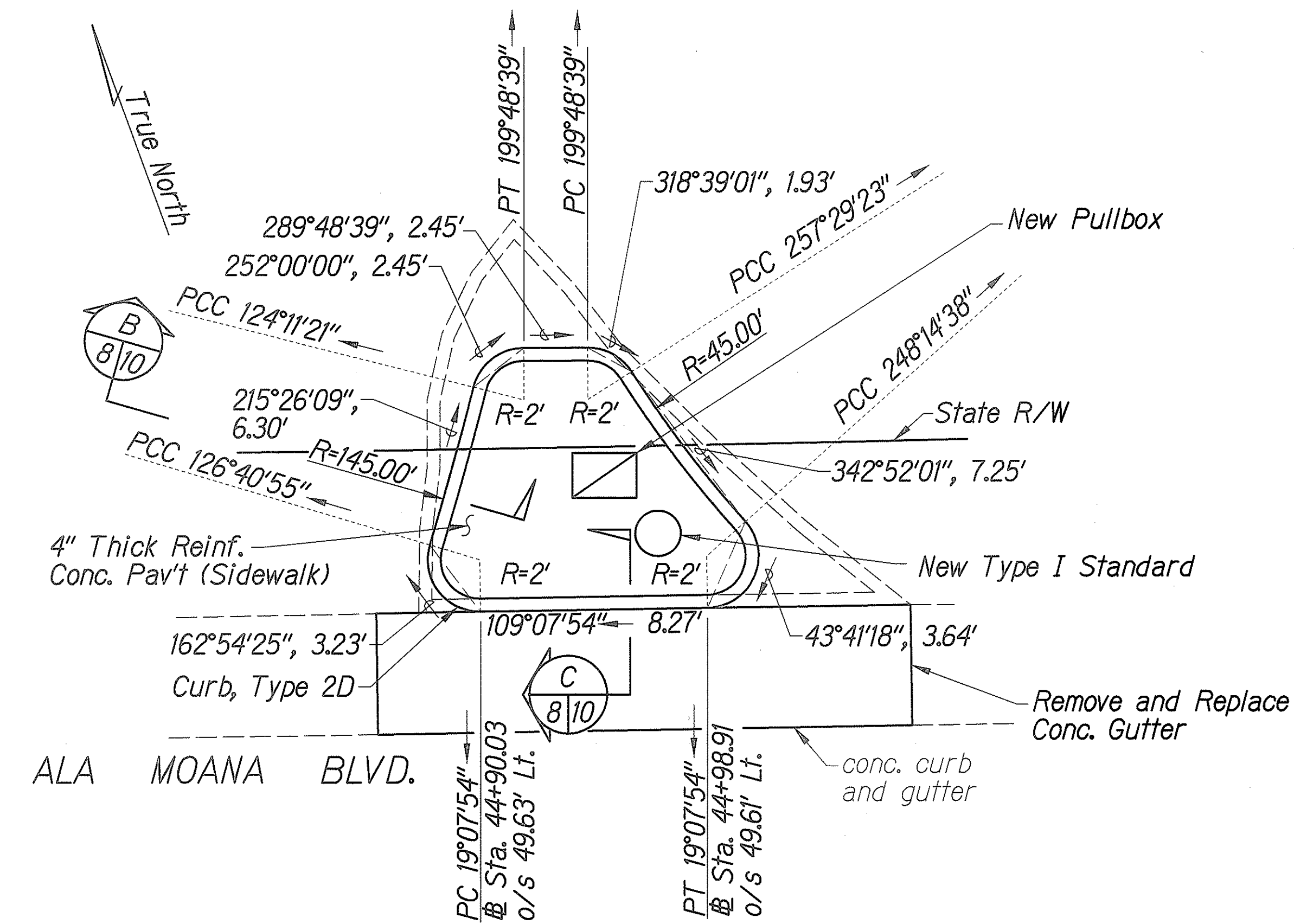


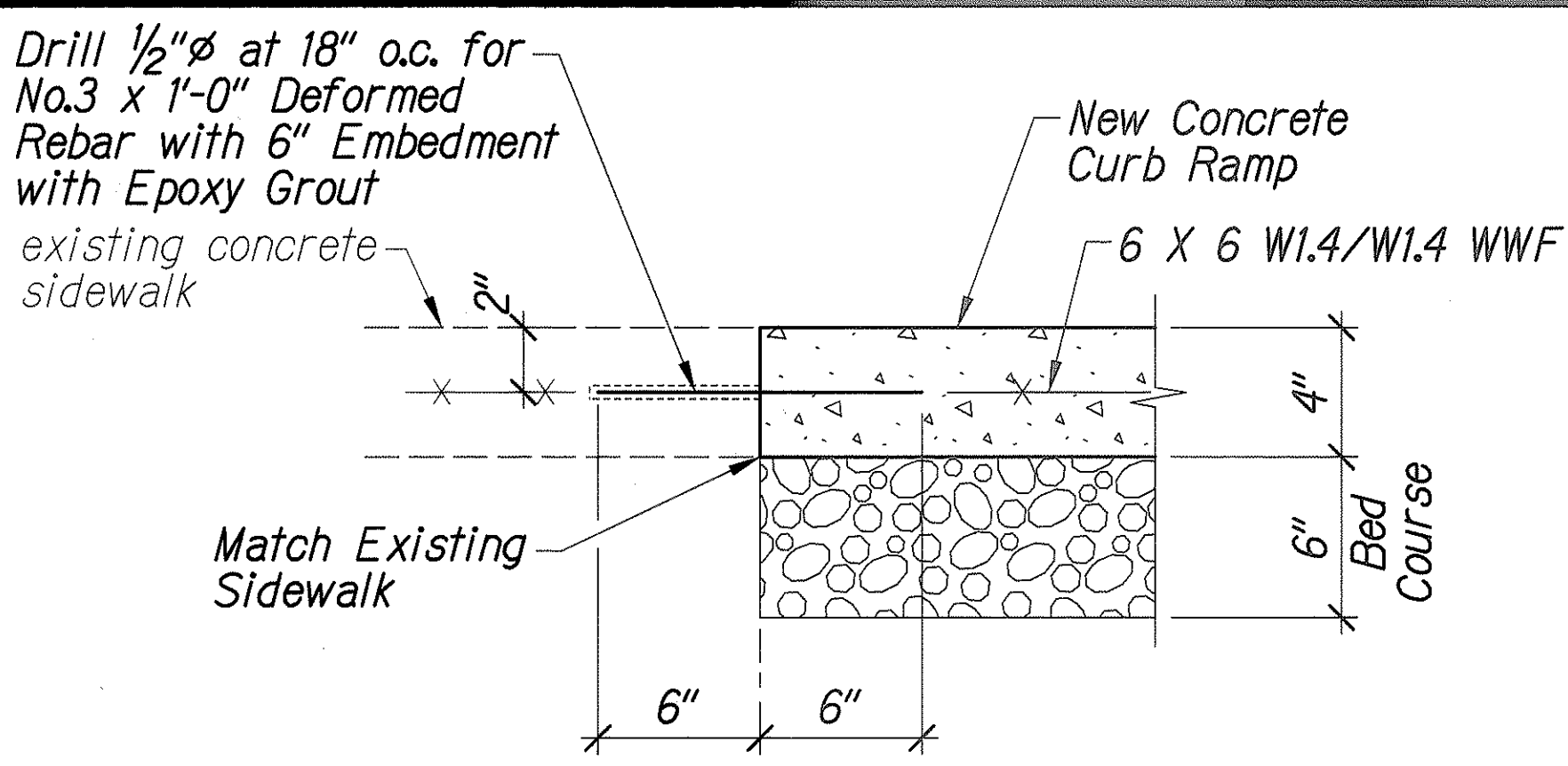
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(26)       | 2002        | 8         | 30           |



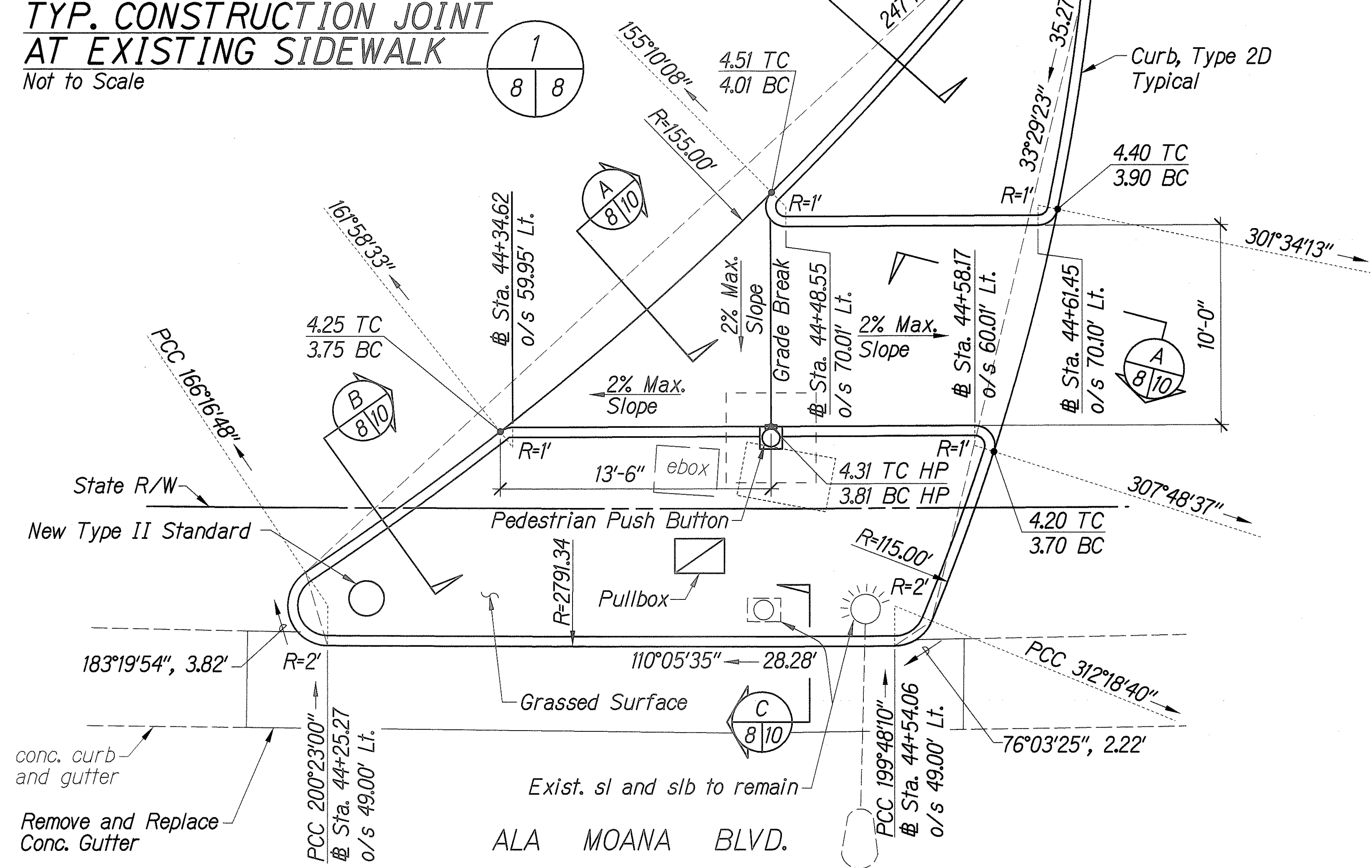
**CURB RAMP 1 PLAN**  
Scale: 1/4" = 1'-0"



**CURB ISLAND 2 PLAN**  
Scale: 1/4" = 1'-0"



**TYP. CONSTRUCTION JOINT AT EXISTING SIDEWALK**  
Not to Scale



**CURB ISLAND 1 AND CURB RAMP 2 PLAN**  
Scale: 1/4" = 1'-0"

**Notes:**  
All Curb Corners 6" min. Radius Unless Otherwise Specified.  
All New Curbs Shall Be Doweled into Existing Adjacent Curbs.  
Provide Doweled Construction Joint at All Connections to Existing Sidewalks.

THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION  
SHIMABUKURO YENDO \* YOSHIZAKI, INC.  
126 12TH AVENUE  
Honolulu, Hawaii 96816

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**MISCELLANEOUS DETAILS**  
  
Ala Moana Boulevard  
Traffic Signal Modernization  
Federal-Aid Project No. NH-092-1(26)  
Scale: 1/4"=1'-0"      Date: February, 2002

SHEET No. 1 OF 4 SHEETS

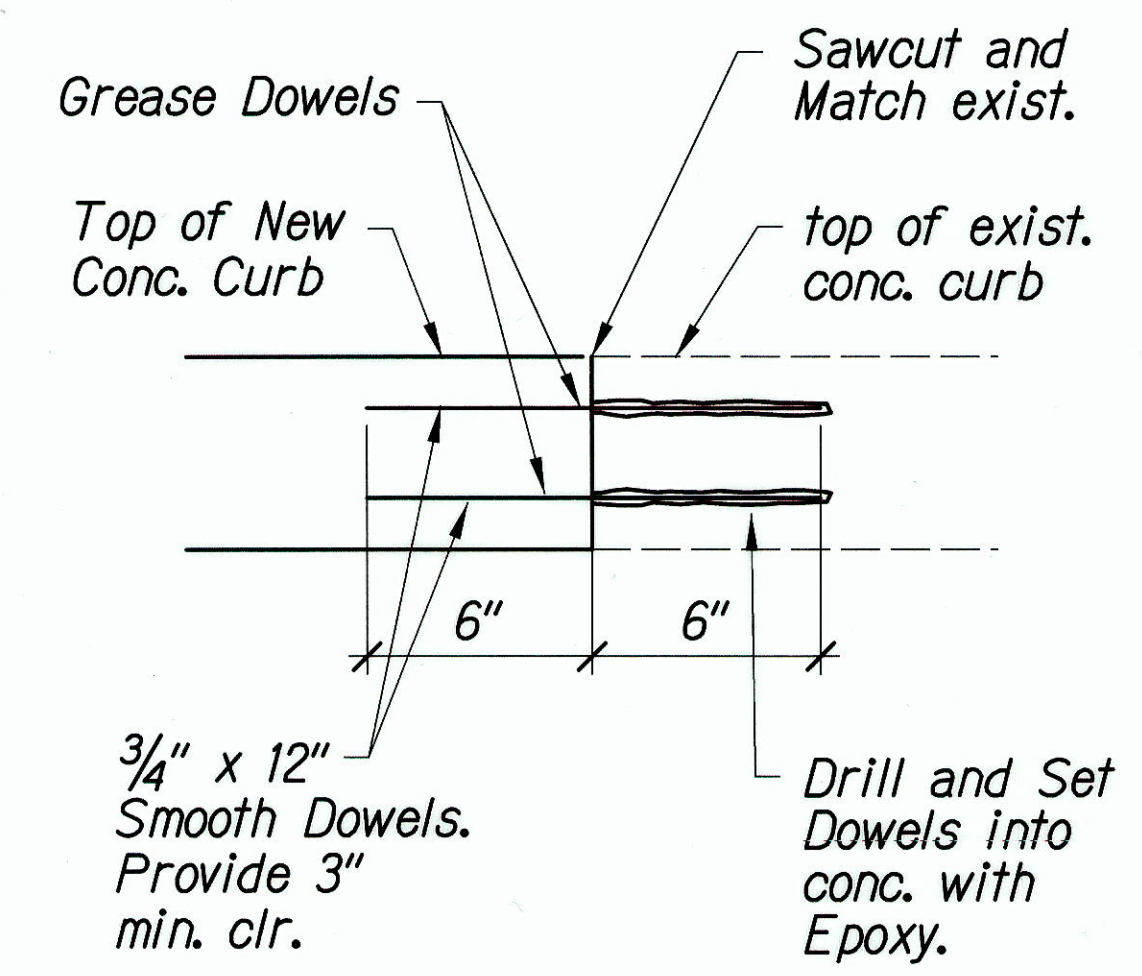
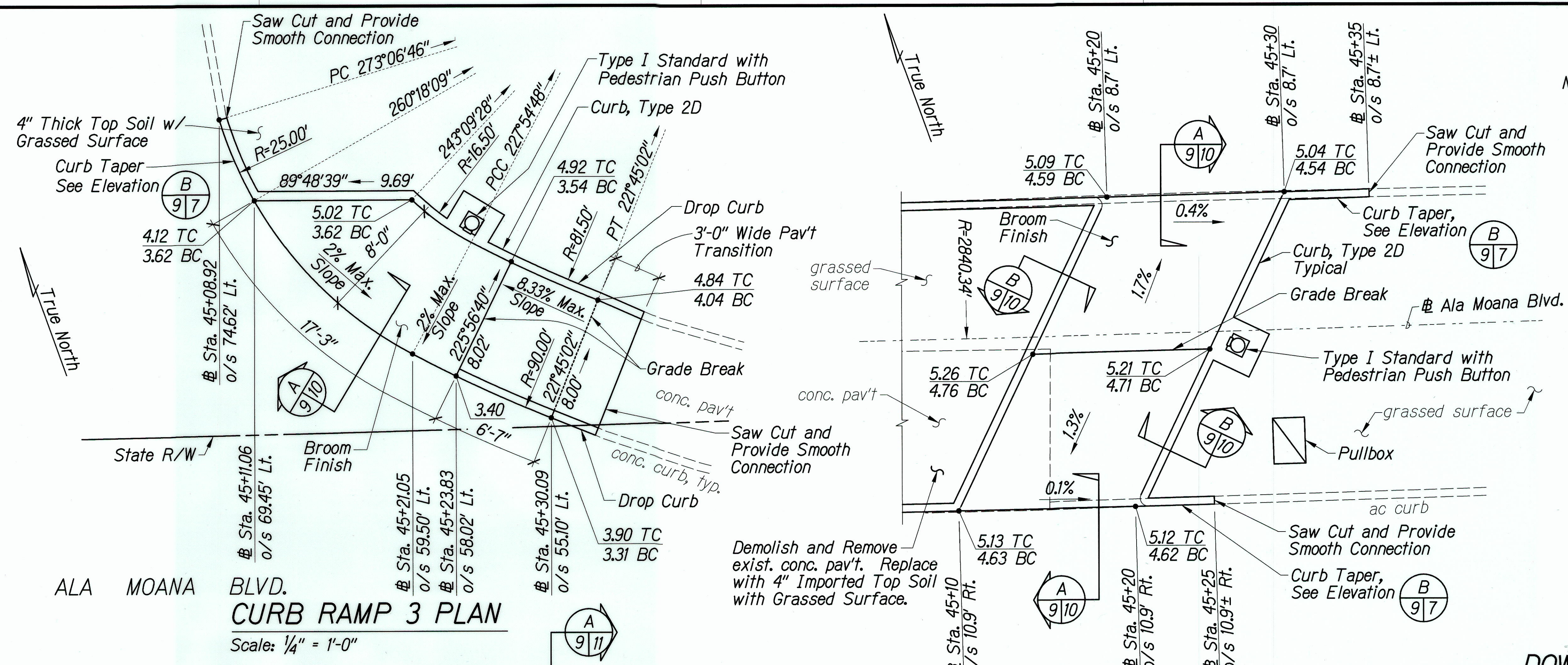
|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| CHECKED BY        |      |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(26)       | 2002        | 6.9       | 30           |

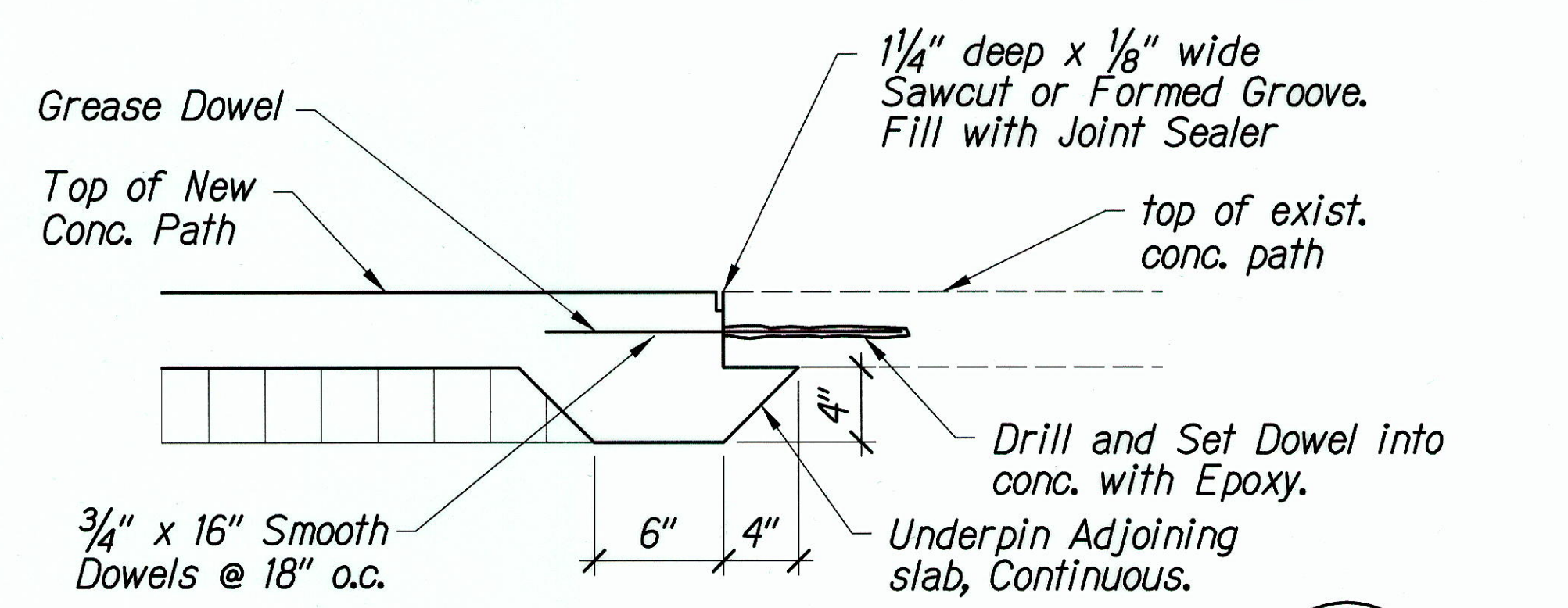
Note: All Curb Corners 6" min. Radius Unless Otherwise Specified.

All New Curbs Shall Be Doweled into Existing Adjacent Curbs.

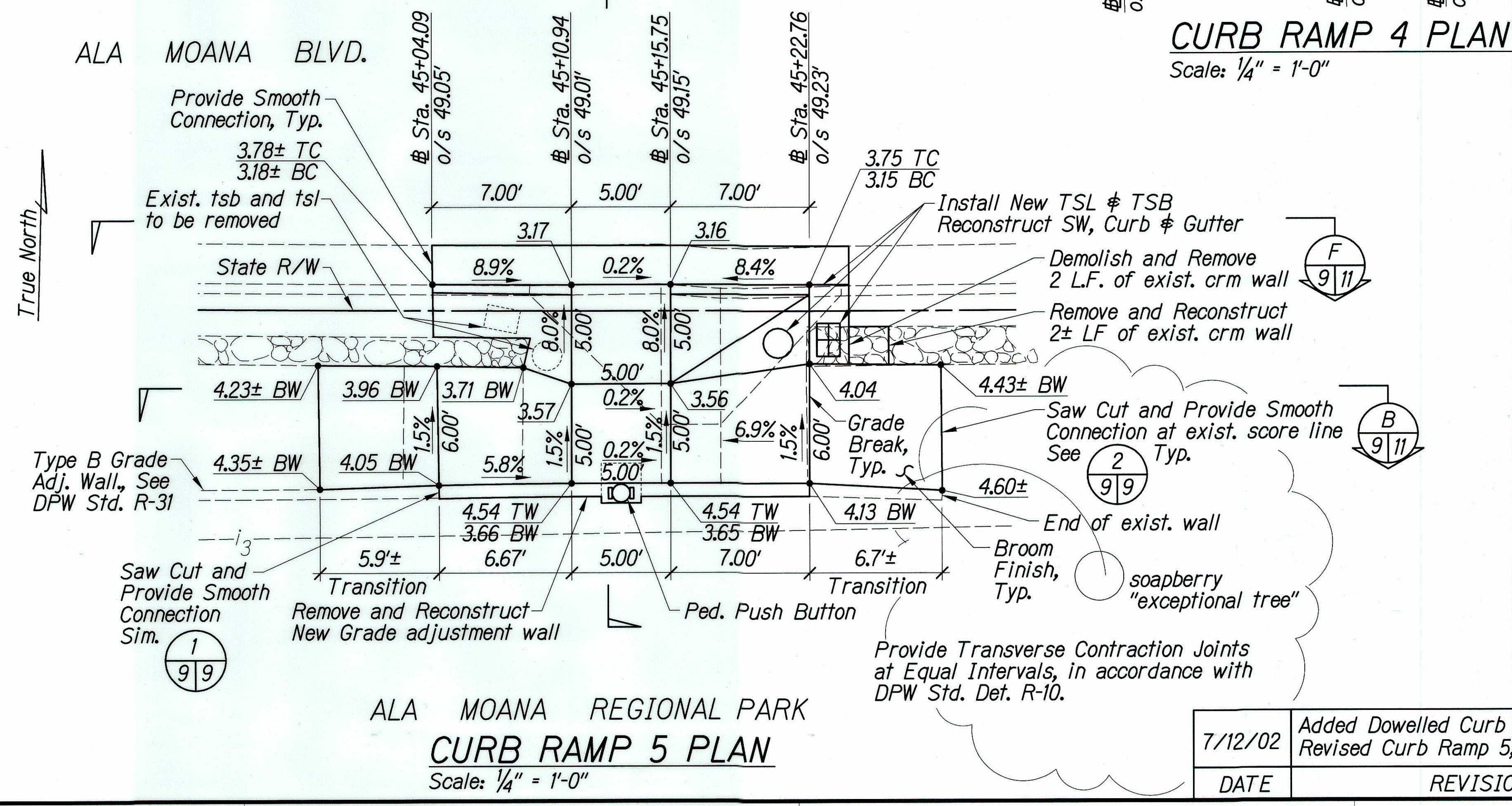
Provide Dowelled Construction Joint at All Connections to Existing Sidewalks.



**DOWELLED CURB DETAIL**  
Not to Scale  
8, 9, 10

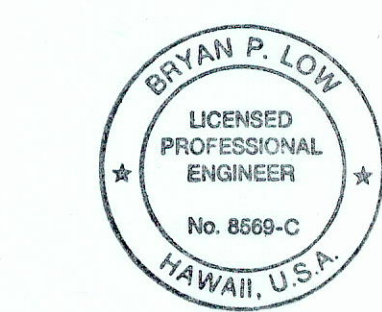


**DPR WALKWAY CONNECTION DETAIL**  
Not to Scale  
9, 10



**ALA MOANA REGIONAL PARK CURB RAMP 5 PLAN**  
Scale: 1/4" = 1'-0"

| DATE    | REVISION                                                                 |
|---------|--------------------------------------------------------------------------|
| 7/12/02 | Added Dowelled Curb and DPR Conn. Det., Revised Curb Ramp 5, Added Notes |



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SHIMAZUKU, ENDO & YOSHIZAKI, INC.  
1126 12TH AVENUE  
HONOLULU, HAWAII 96816

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CURB RAMP DETAILS**

Ala Moana Boulevard  
Traffic Signal Modernization  
Federal-Aid Project No. NH-092-1(26)

Scale: 1/4"=1'-0" Date: Aug. 14, 2002

SHEET No. 2 OF 4 SHEETS

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY       |      |
| TRACED BY         |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| NO.               |      |

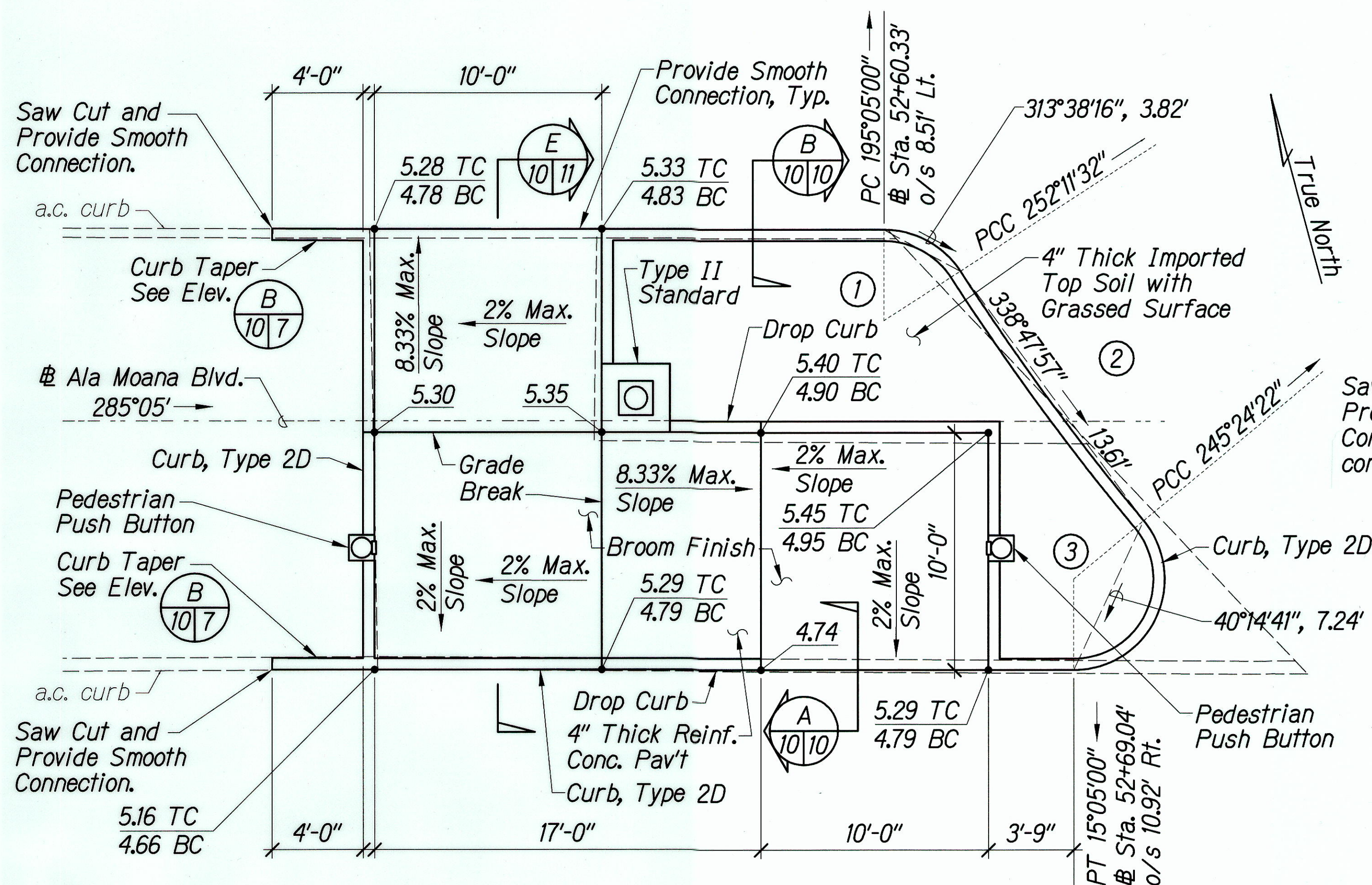
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(26)       | 2002        | 10        | 30           |

## CURVE DATA

①  
 $\Delta = 57^{\circ}06'32''$   
 $\Delta/2 = 28^{\circ}33'16''$   
 $R = 4.00'$   
 $T = 2.18'$   
 $Lch = 3.82'$   
 $Lc = 3.99'$

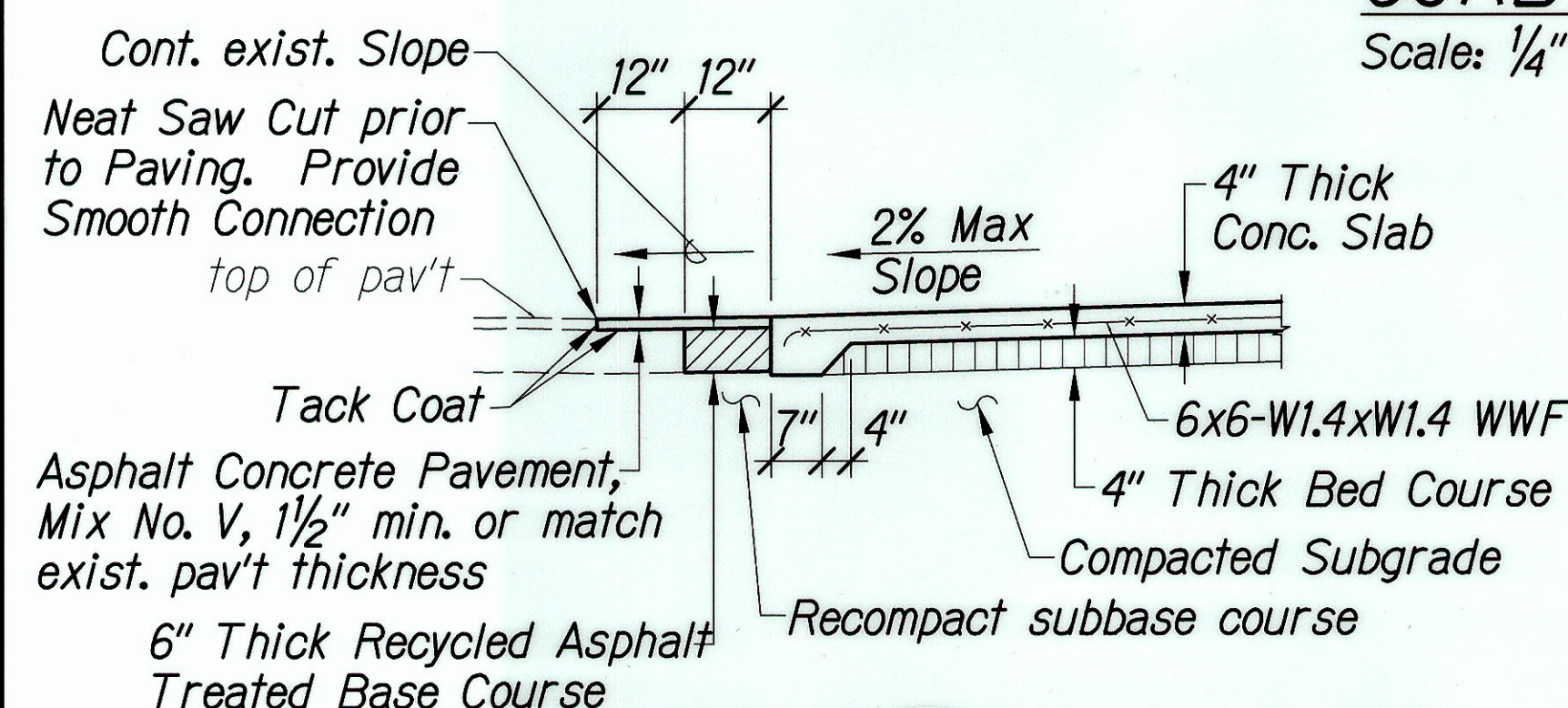
②  
 $\Delta = 6^{\circ}47'10''$   
 $\Delta/2 = 3^{\circ}23'35''$   
 $R = 115.00'$   
 $T = 6.82'$   
 $Lch = 13.61'$   
 $Lc = 13.62'$

③  
 $\Delta = 129^{\circ}40'38''$   
 $\Delta/2 = 64^{\circ}50'19''$   
 $R = 4.00'$   
 $T = 8.52'$   
 $Lch = 7.24'$   
 $Lc = 9.05'$



## CURB RAMP 6 PLAN

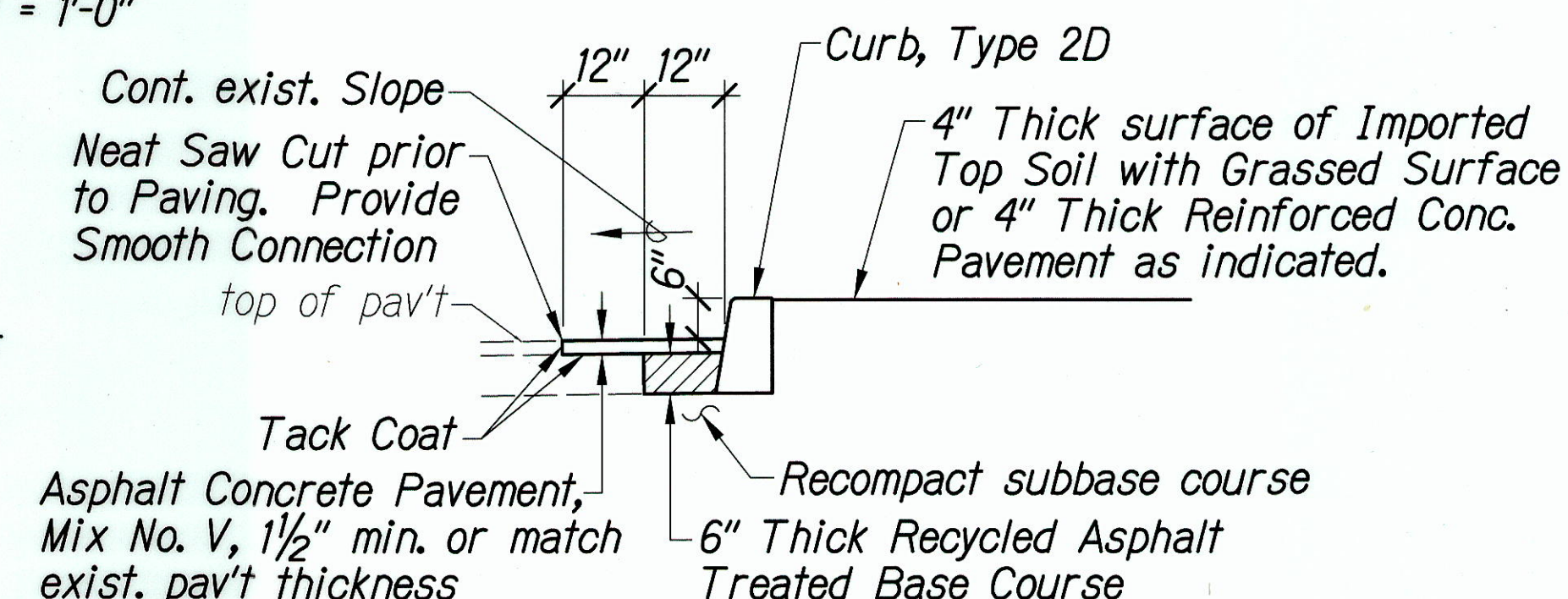
Scale: 1/4" = 1'-0"



## SECTION A

Scale: 1/2" = 1'-0"

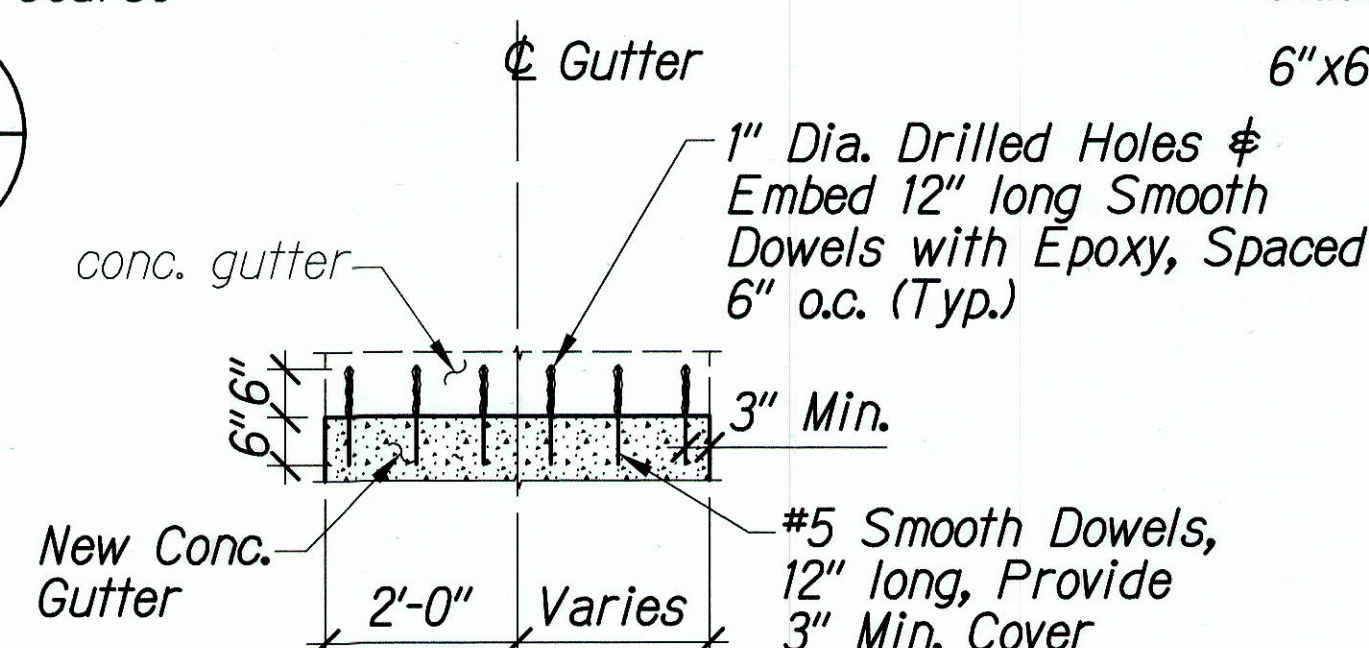
8, 9



## SECTION B

Scale: 1/2" = 1'-0"

8, 9

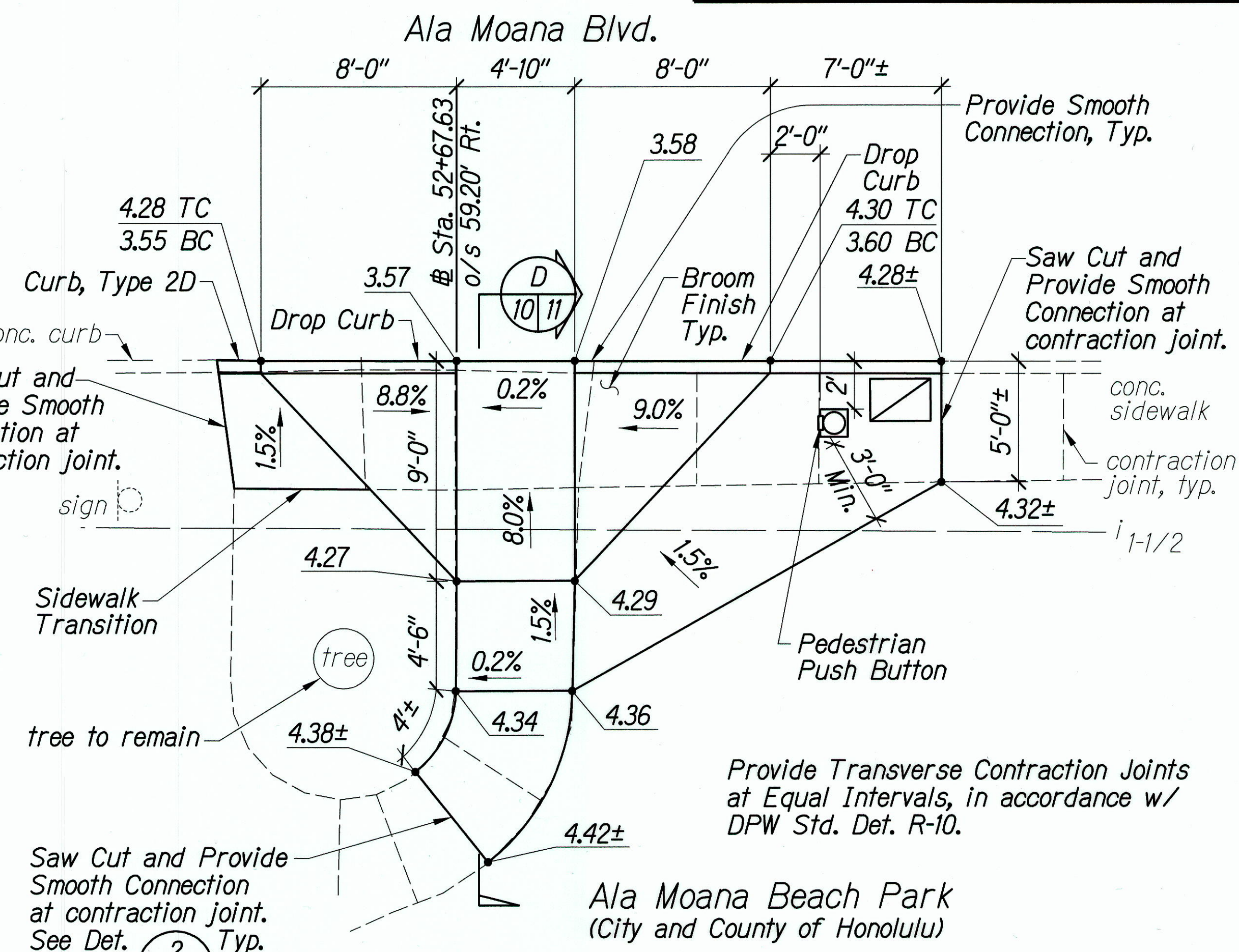


## PLAN

## GUTTER CONN. DETAIL

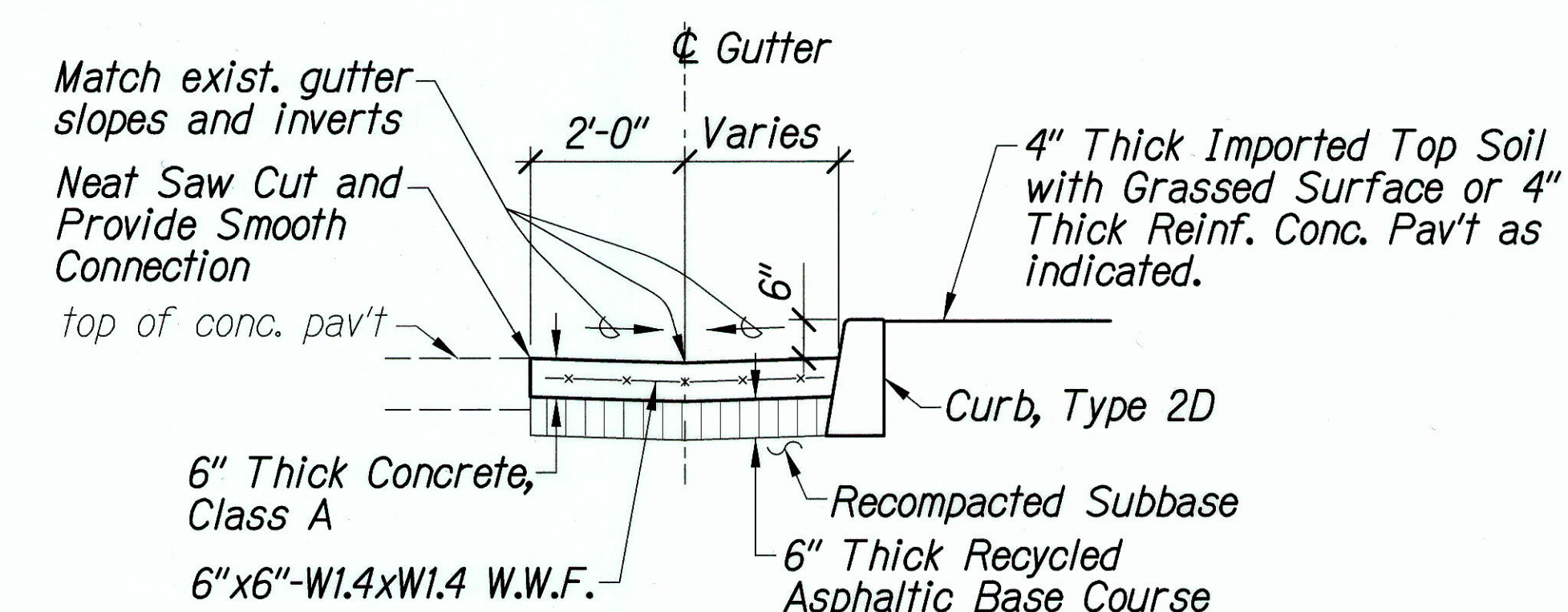
Scale: 1/2" = 1'-0"

1  
10 10



## CURB RAMP 7 PLAN

Scale: 1/4" = 1'-0"



## SECTION C

Scale: 1/2" = 1'-0"

8 10

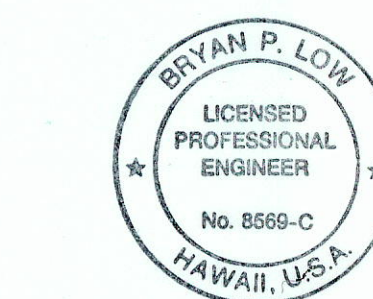
\* For Connection into exist. gutter, See Det. 1/10/10

Note: All Curb Corners 6" min. Radius Unless Otherwise Specified.

All New Curbs Shall Be Doweled into Existing Adjacent Curbs.

Provide Dowelled Construction Joint at All Connections to Existing Sidewalks.

|         |                                  |
|---------|----------------------------------|
| 7/12/02 | Revised Curb Ramp 7, Added Notes |
| DATE    | REVISION                         |



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 SKIMMAKURU, ENDO & YOSHIZAKI, INC.  
 1126 12TH AVENUE  
 HONOLULU, HAWAII 96816

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

## CURB RAMP DETAILS

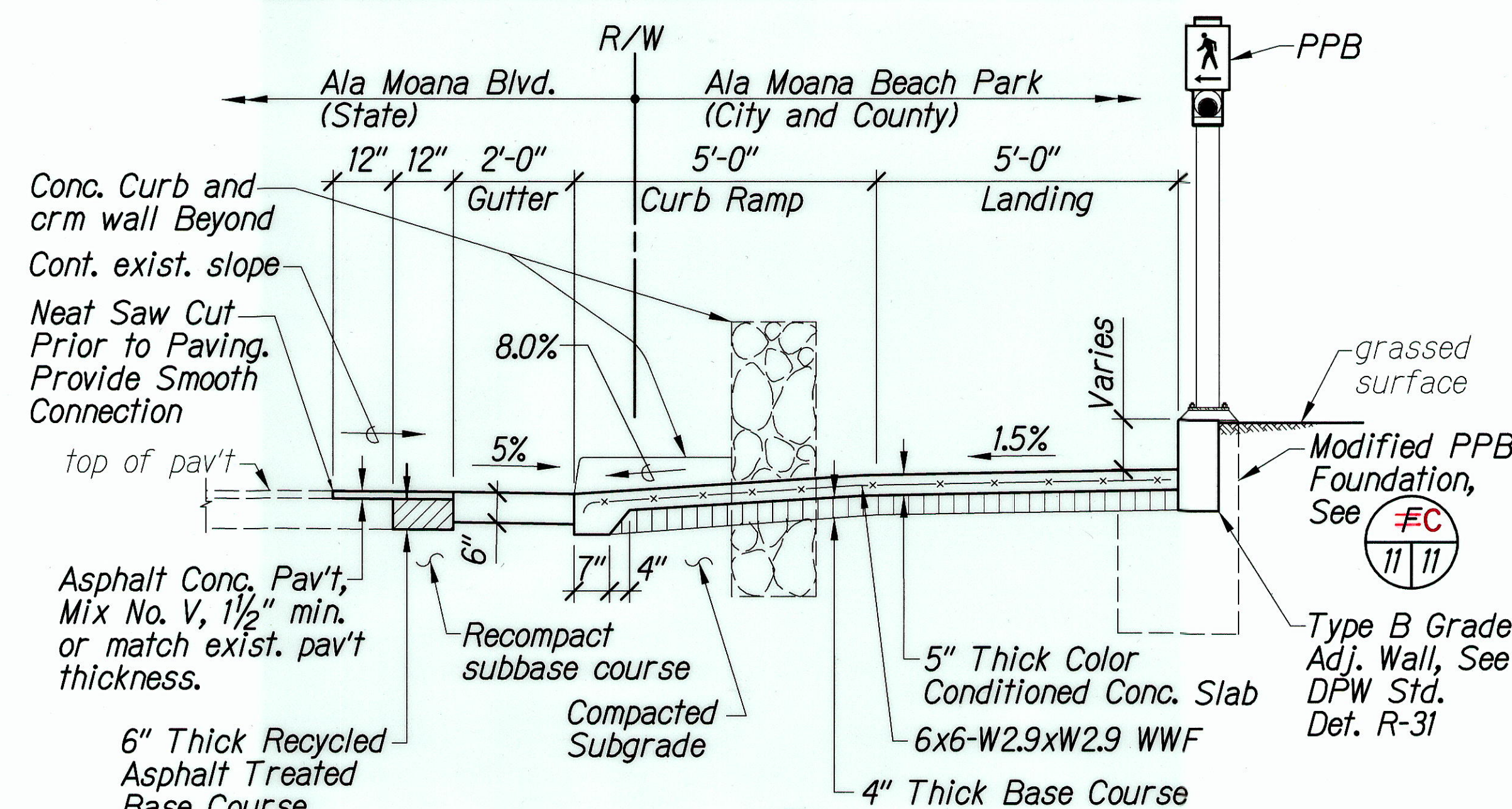
Ala Moana Boulevard  
 Traffic Signal Modernization  
 Federal Aid Project No. NH-092-1(26)

Scale: 1/4" = 1'-0" Date: Aug 14, 2002

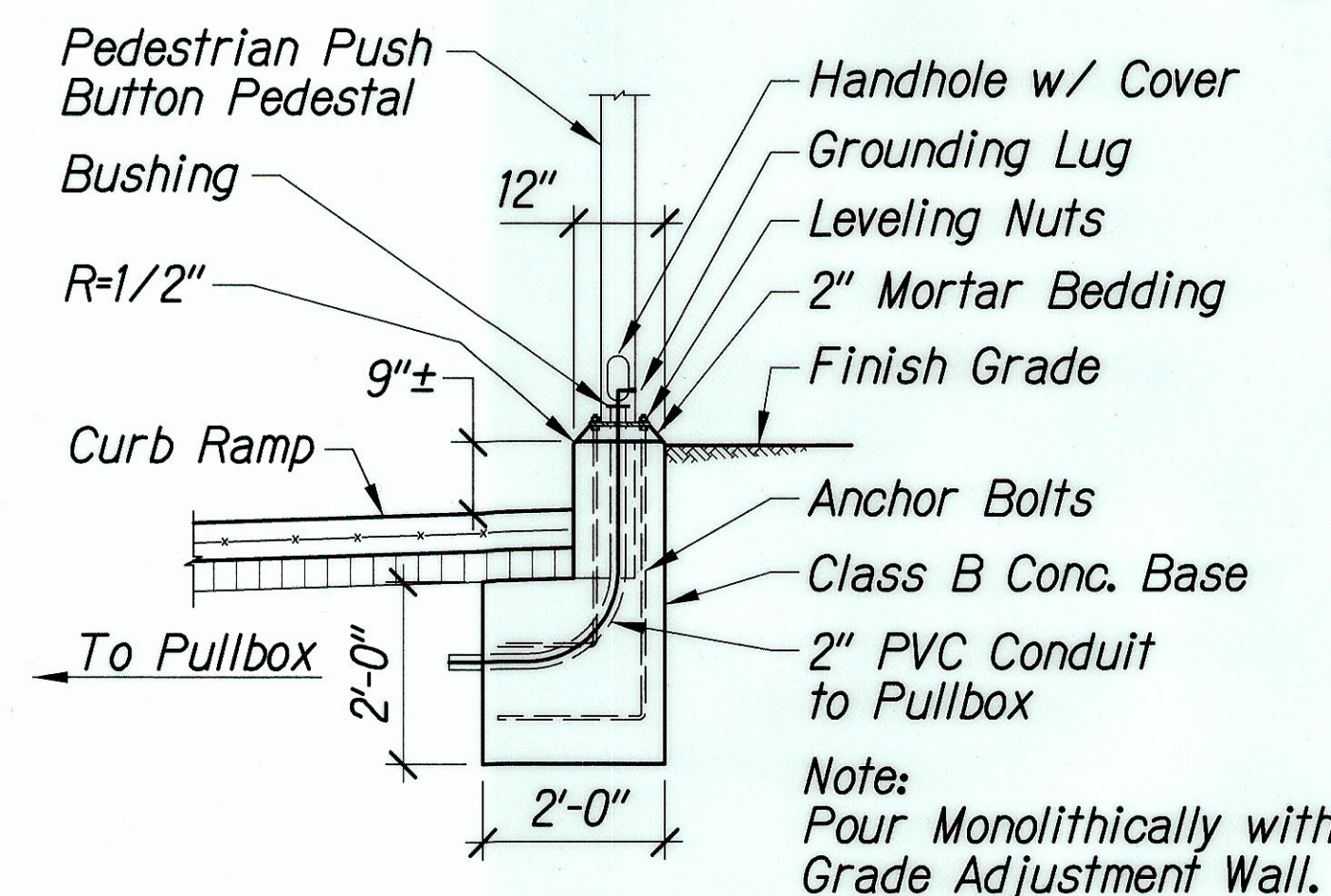
SHEET No. 3 OF 4 SHEETS

C.O. 10

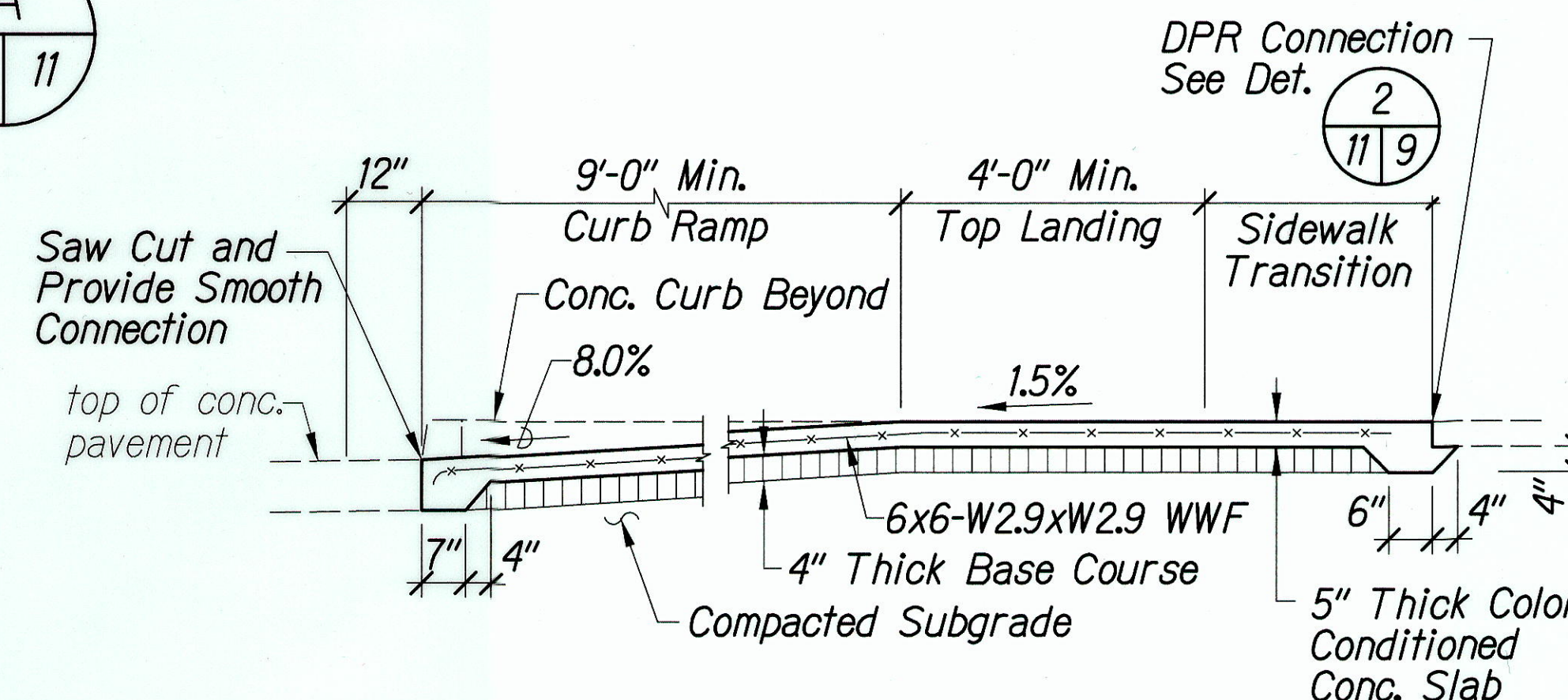
| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-092-1(26) | 2002        | C.O.11    | 30           |



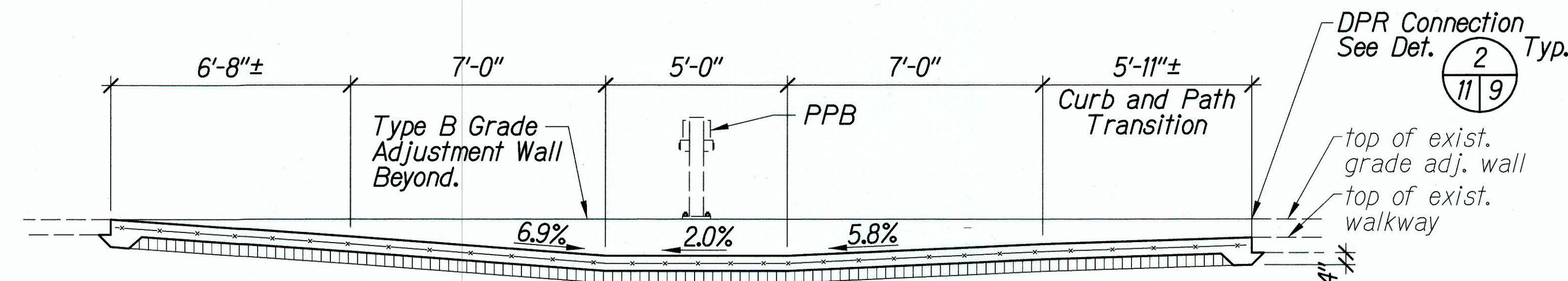
**SECTION A**  
Scale: 1/2" = 1'-0"



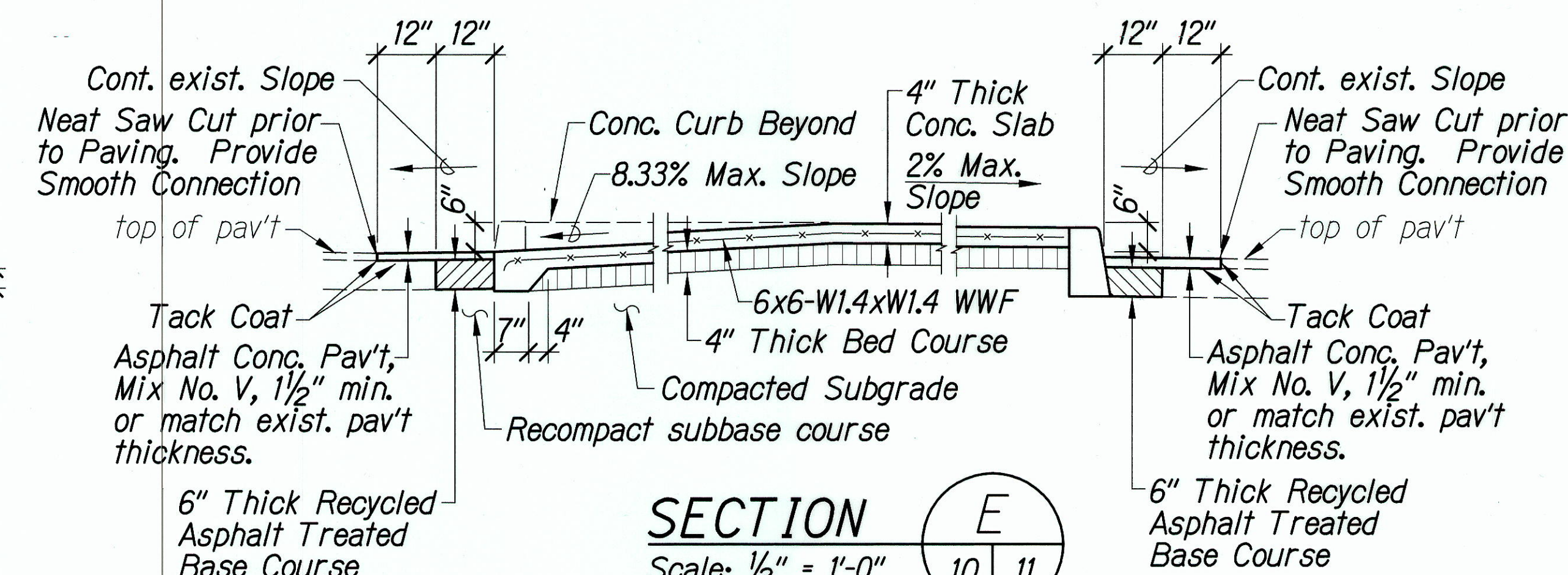
**MODIFIED PEDESTRIAN PUSH BUTTON FOUNDATION**  
Scale: 1/2" = 1'-0"



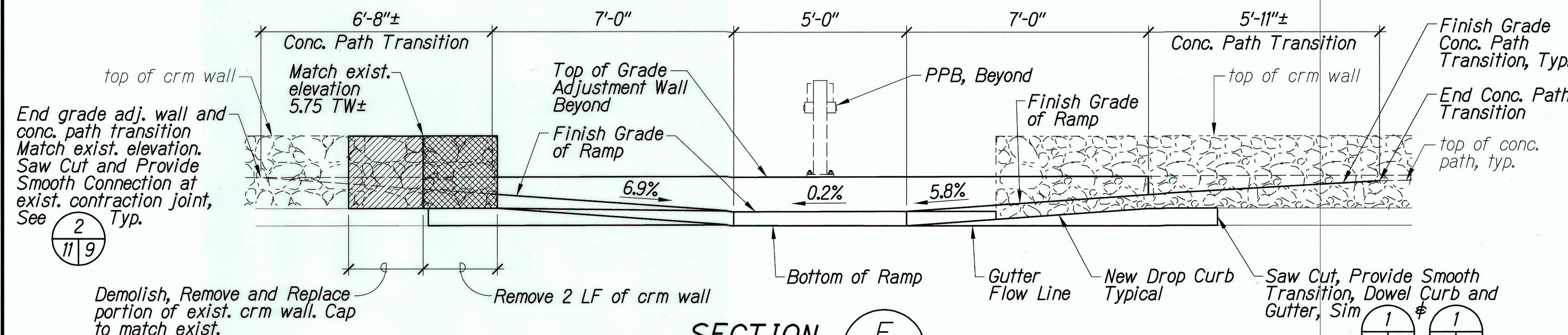
**CURB RAMP DETAIL D**  
Scale: 1/2" = 1'-0"



**SECTION B**  
Scale: 3/8" = 1'-0"



**SECTION E**  
Scale: 1/2" = 1'-0"



**SECTION F**  
Scale: 1/2" = 1'-0"

- Notes:**
- All Curb Corners 6" min. Radius Unless Otherwise Specified.
  - All New Curbs Shall Be Doweled into Existing Adjacent Curbs.
  - Provide Dowelled Construction Joint at All Connections to existing sidewalks.
  - Colored Conditioned Concrete and CRM Wall Modification shall conform to City, DPR Specifications.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GENERAL NOTES AND LEGEND**

Ala Moana Boulevard  
Traffic Signal Modernization  
Federal Aid Project No. NH-092-1(26)

Scale: As Shown Date: Aug. 14, 2002

SHEET No. 4 OF 4 SHEETS

BRYAN P. LOW  
LICENSED PROFESSIONAL ENGINEER  
No. 8569-C  
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

SHINABUKU, ANDO & YOSHIZAKI, INC.  
120 12TH Avenue  
Honolulu, Hawaii 96816

AS-BUILT

C.O. 11