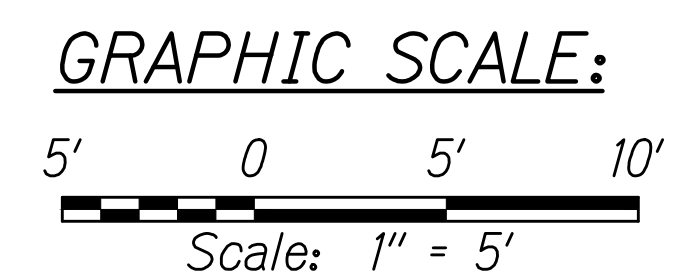
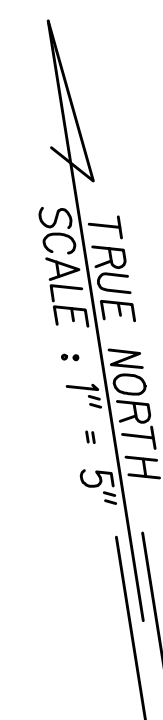


1. Detectable warnings shall be 24 inches in the direction of travel and extend the full width of the curb ramp of flush surface (does not include flares).
2. Truncated domes shall have a diameter of 0.90 to 1.40 inch at the bottom, a diameter of 50%-65% of the base diameter at the top, a height of 0.20 inch and a center-to-center spacing of 1.60 to 2.40 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. There shall be a minimum of 70% contrast in light reflectance between the detectable warning and an adjoining surface, or 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 to 8 inches from the curb line.

SCALE: 1" = 5'



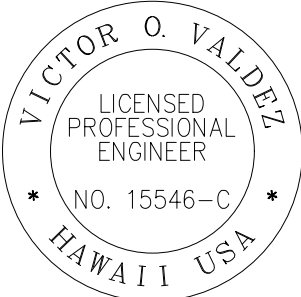
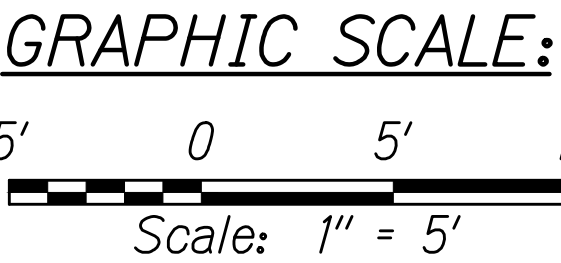
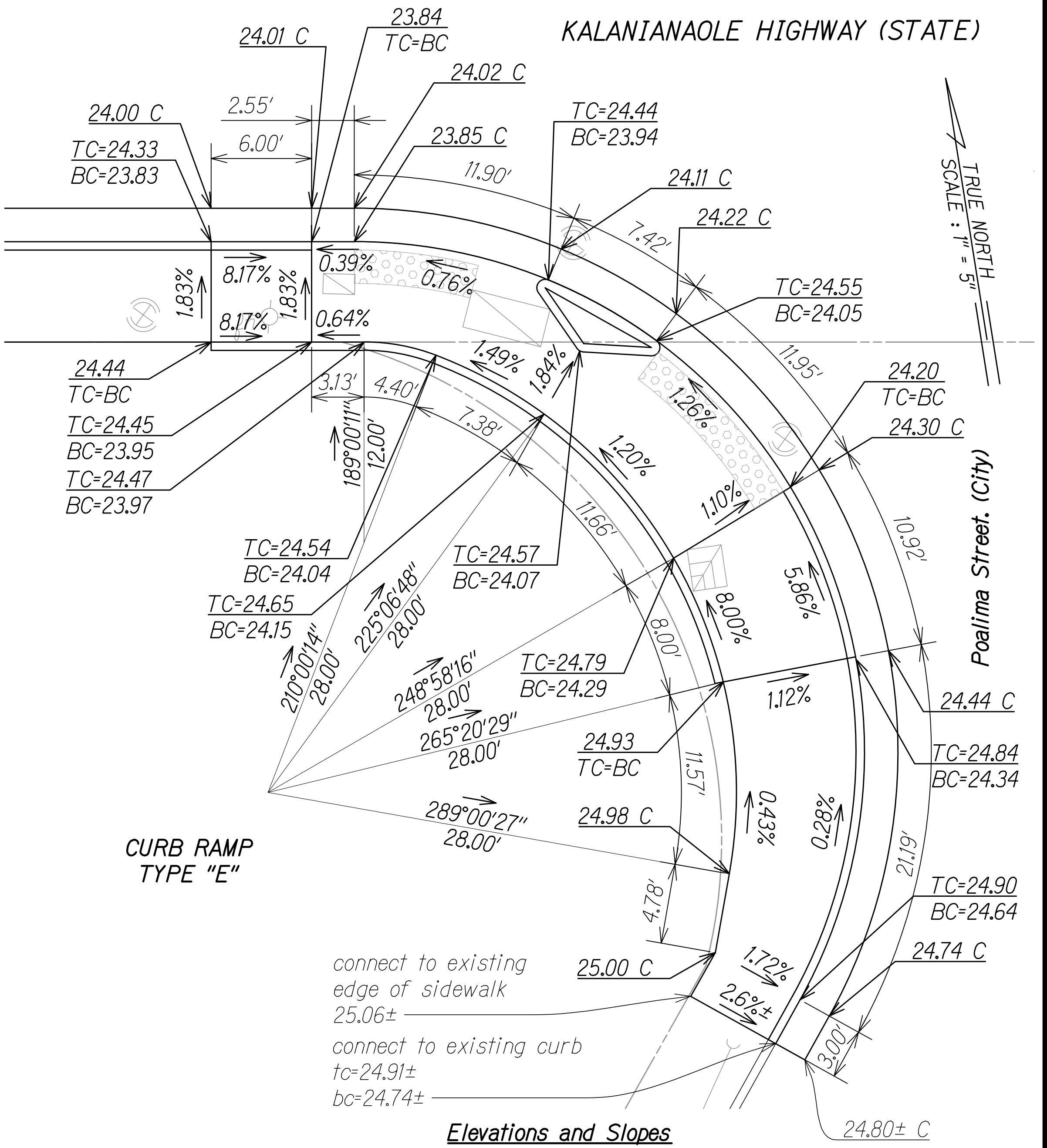
CURVE	①	②	③
$\Delta$	88°53'57"	31°47'40"	57°02'30"
$\Delta/2$	44°26'58.5"	15°53'50"	28°31'15"
$R$	15.00'	20.00'	14.81'
$Tan.$	14.71'	5.70'	8.05'
$C$	21.01'	10.96'	14.14'
$Lc$	23.27'	11.10'	14.74'

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62

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(059)	2021	63	243



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CURB RAMP DETAILS**  
KALANIANA'OLE HIGHWAY IMPROVEMENTS PHASE 2  
Poalima Street to Vicinity of Makai Pier  
Federal-Aid Project No. NH-072-1(059)  
Scale: 1" = 5' Date: January 2021

SHEET No. C7 OF 27 SHEETS



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(059)	2021	64	243

CURVE DATA:

CURVE	①	②	③	④
$\Delta$	90°00'00"	89°45'06"	90°13'37"	90°00'00"
$\Delta/2$	45°00'00"	44°52'33.0"	45°06'48.5"	45°00'00.0"
R	20.00'	28.00'	28.00'	20.00'
Tan.	20.00'	27.88'	28.11'	20.00'
C	28.28'	39.51'	39.68'	28.28'
Lc	31.42'	43.86'	44.09'	31.42'

LINE DATA:

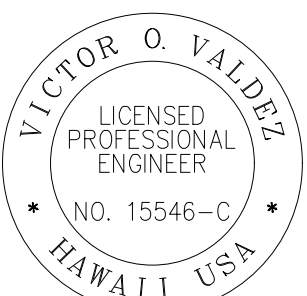
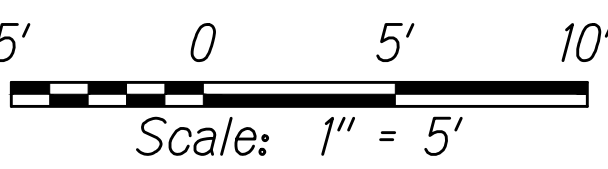
LINE	L1	L2
Az	326°10'22"	51°18'23"
Distance	8.00'	8.00'

New Concrete Sidewalk per SDOT Std. Plan No. D-15  
New Curb and Gutter (Type 2DG) per SDOT Std. Plan No. D-05

NOTES:

- ① Transition from Standard Curb and Gutter to Rolled Curb, See City and County of Honolulu DPW Std R-6.
- For Intersection Details, See Intersection Layout Plan R44

GRAPHIC SCALE:



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

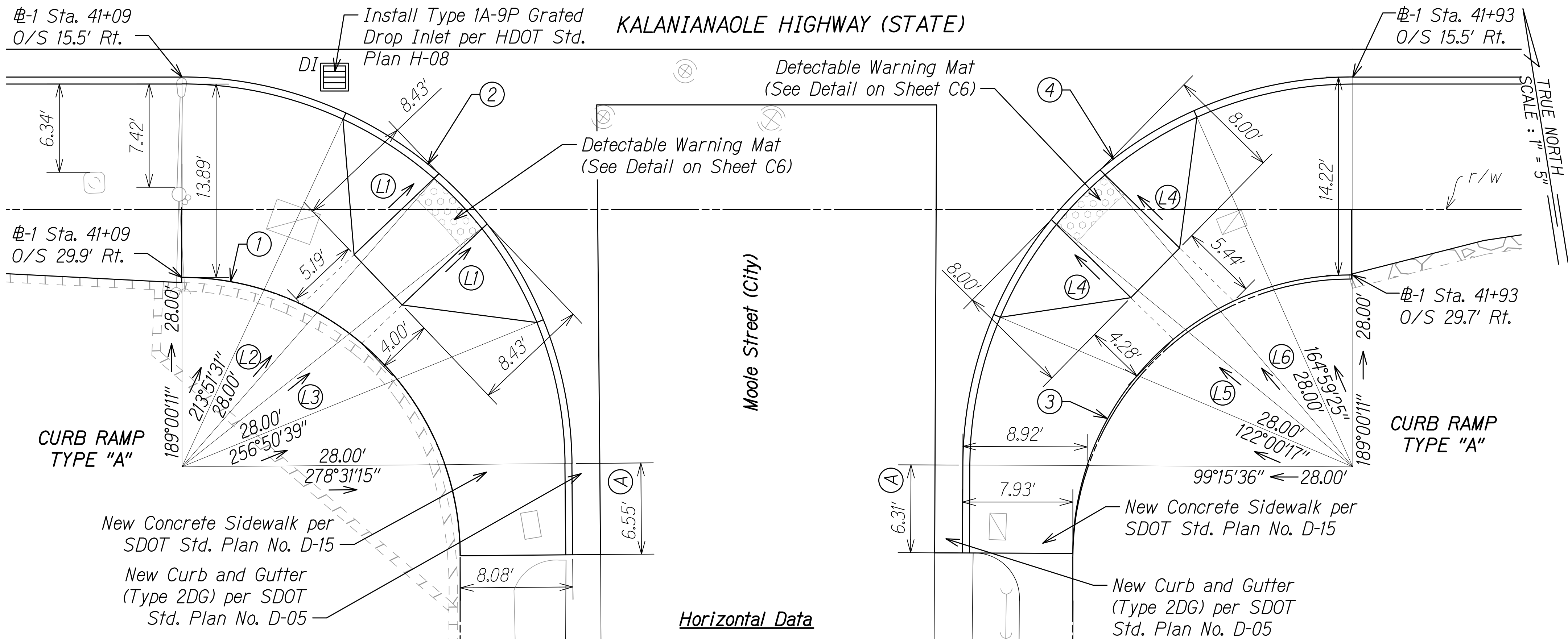
**CURB RAMP DETAILS**  
KALANIANA'OLE HIGHWAY IMPROVEMENTS PHASE 2  
Poalima Street to Vicinity of Makai Pier  
Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 5'      Date: January 2021

SHEET No. C8 OF 27 SHEETS

C:\CIVIL 3D PROJECTS\2017\_002.000.DOT KAL HWY RESURFACING POALIMA TO HULUOI CE DWG\C8-C10 CURB RAMP DETAILS.DWG 1/15/2021 4:11 PM

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(059)	2021	65	243



**CURVE DATA:**

CURVE	①	②	③	④
$\Delta$	89°59'59"	89°31'04"	90°17'38"	89°44'35"
$\Delta/2$	44°59'59.3"	44°45'32.0"	45°08'49.0"	44°52'17.5"
R	20.00'	28.00'	20.00'	28.00'
Tan.	20.00'	27.77'	20.10'	27.87'
C	28.28'	39.43'	28.36'	39.51'
Lc	31.42'	43.75'	31.52'	43.86'

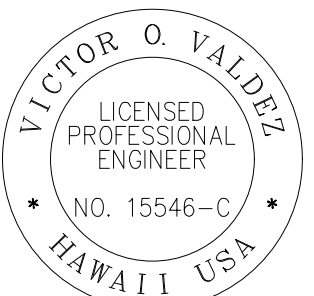
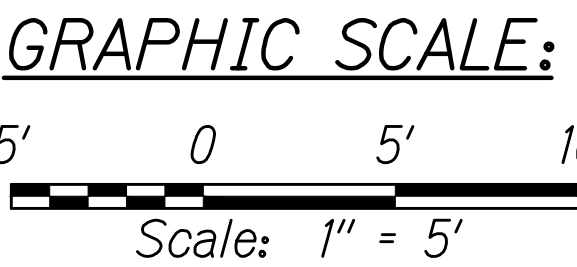
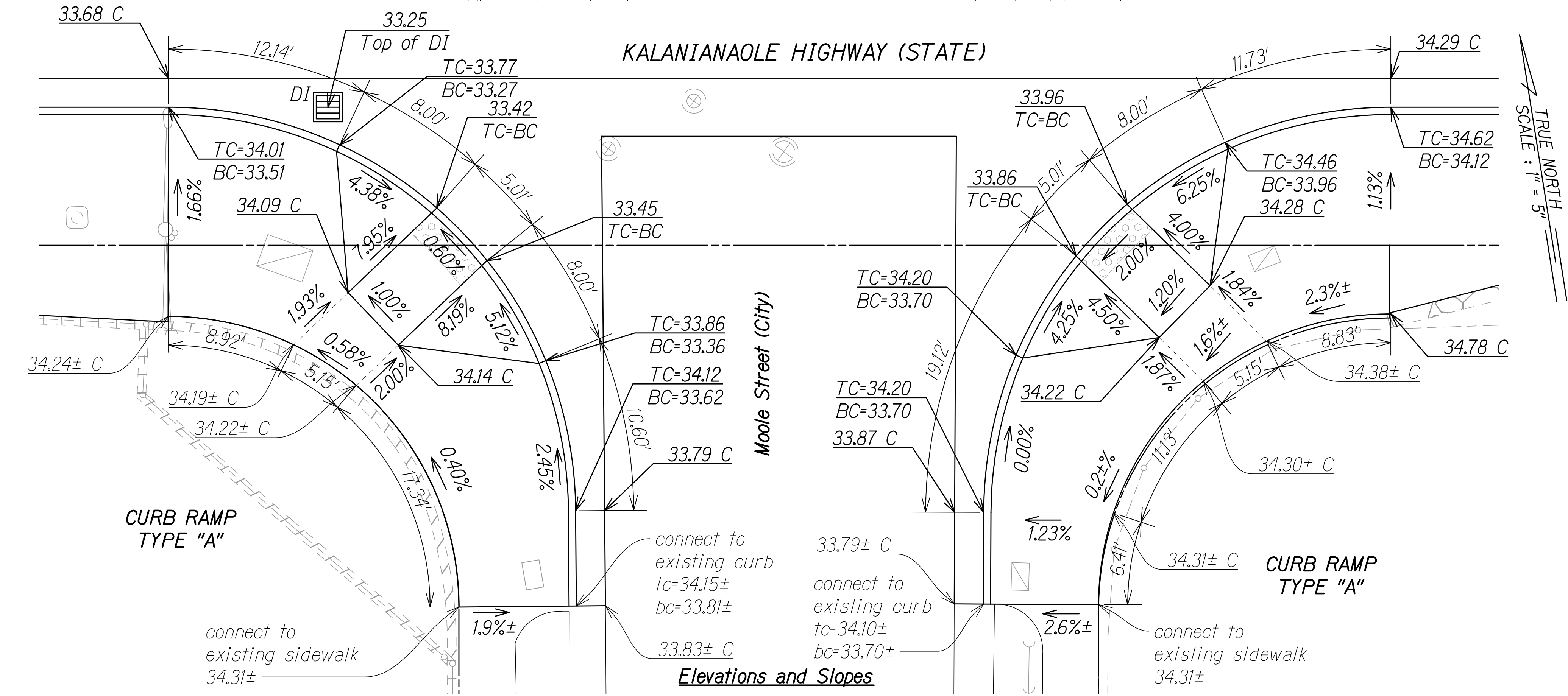
**LINE DATA:**

LINE	①	②	③	④
Az	235°21'05"	230°13'14"	240°28'26"	143°29'51"
Distance	8.43'	28.00'	28.00'	8.00'

LINE	⑤	⑥
Az	138°22'30"	148°37'12"
Distance	28.00'	28.00'

**NOTES:**

- ① (A) Transition from Standard Curb and Gutter to Rolled Curb, See City and County of Honolulu DPW Std R-6.
- For Intersection Details, See Intersection Layout Plan R44



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HIGHWAYS DIVISION

**CURB RAMP DETAILS**  
KALANIANA'OLE HIGHWAY IMPROVEMENTS PHASE 2  
Poalima Street to Vicinity of Makai Pier  
Federal-Aid Project No. NH-072-1(059)  
Scale: 1" = 5' Date: January 2021

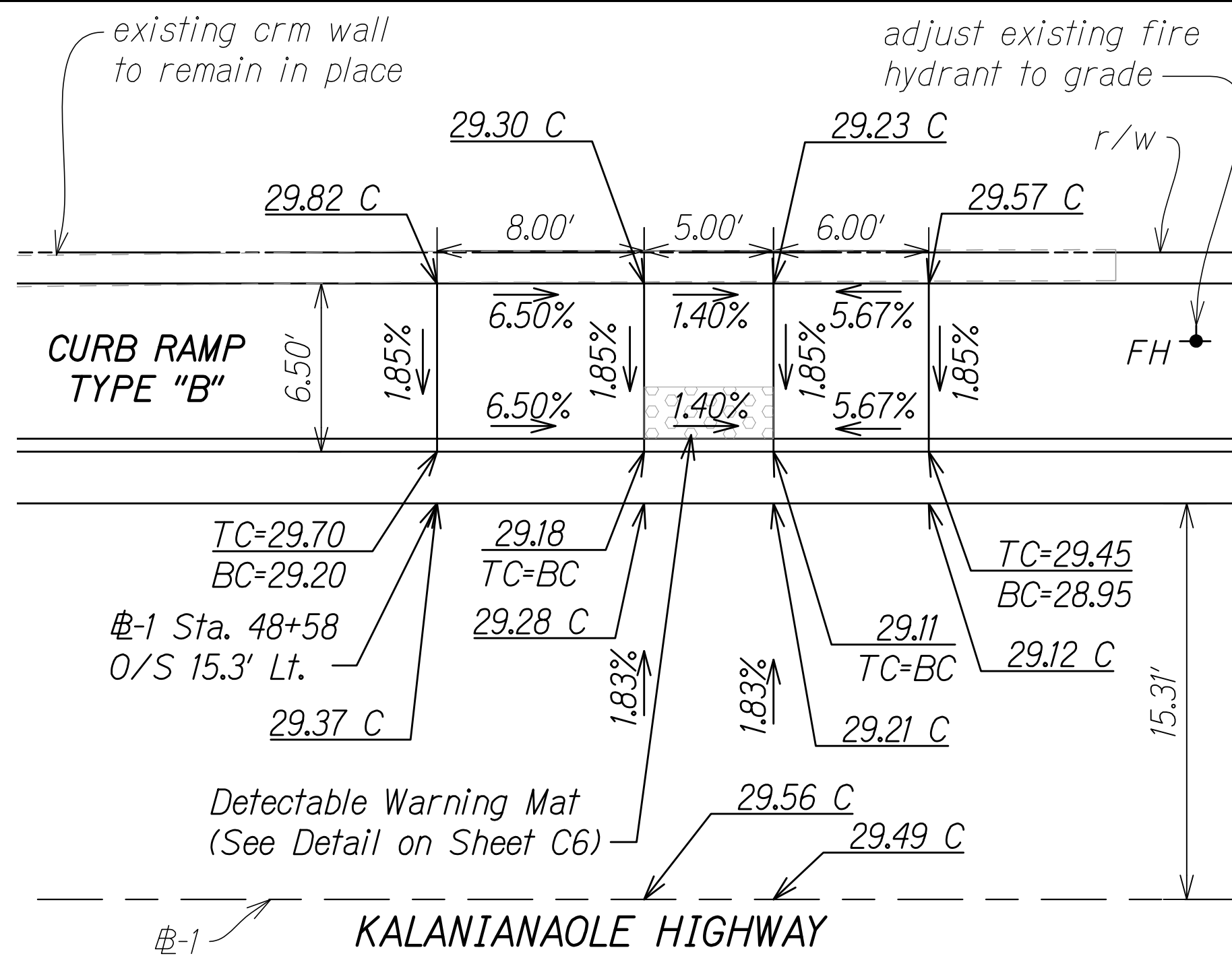
SHEET No. C9 OF 27 SHEETS



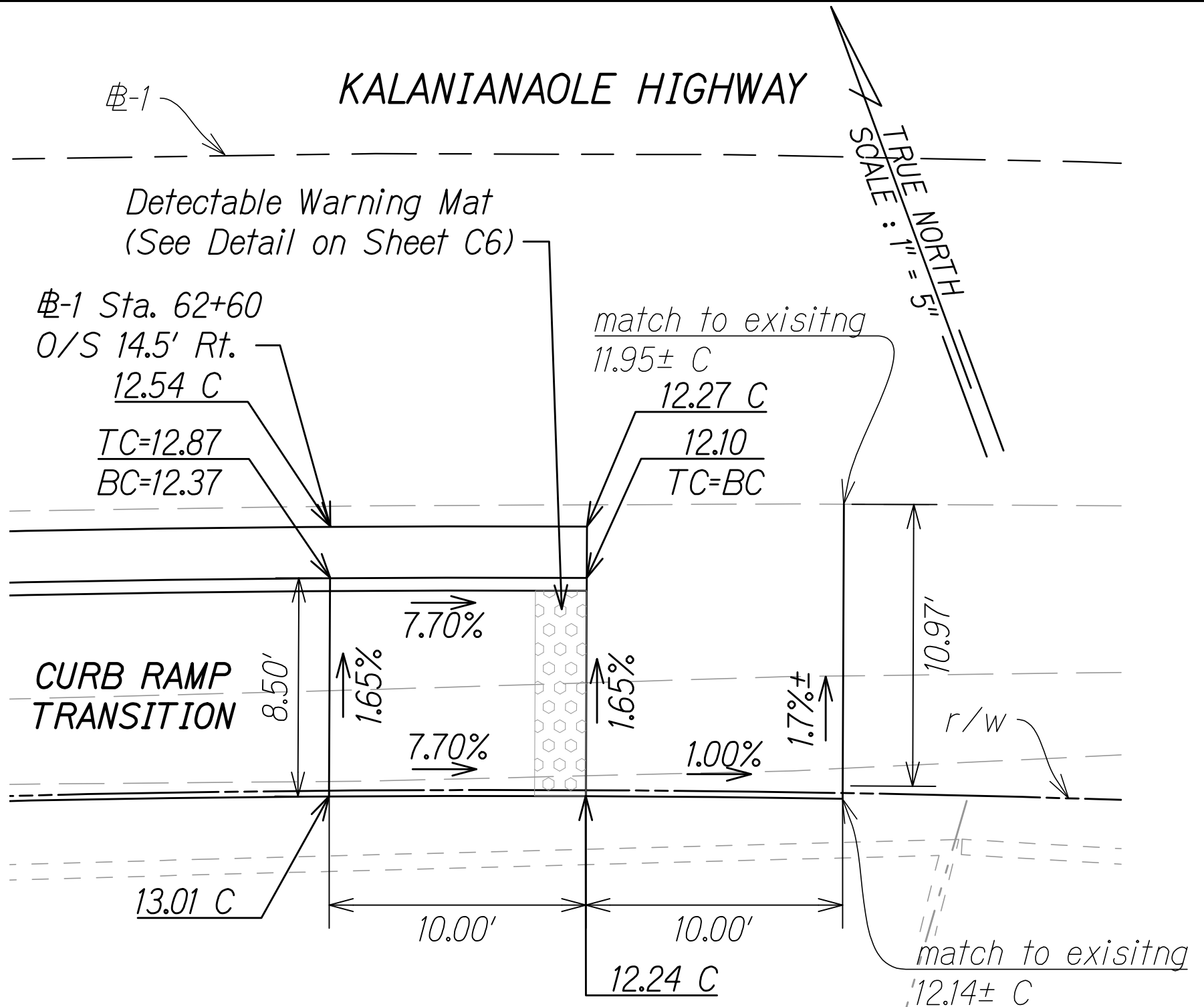


C:\CIVIL 3D PROJECTS\2017\_002.000.DOT KAL HWY RESURFACING POALIMA TO HULU\01 CE DWG\C11 CURB RAMP DETAILS.DWG 11/4/2020 9:52 AM

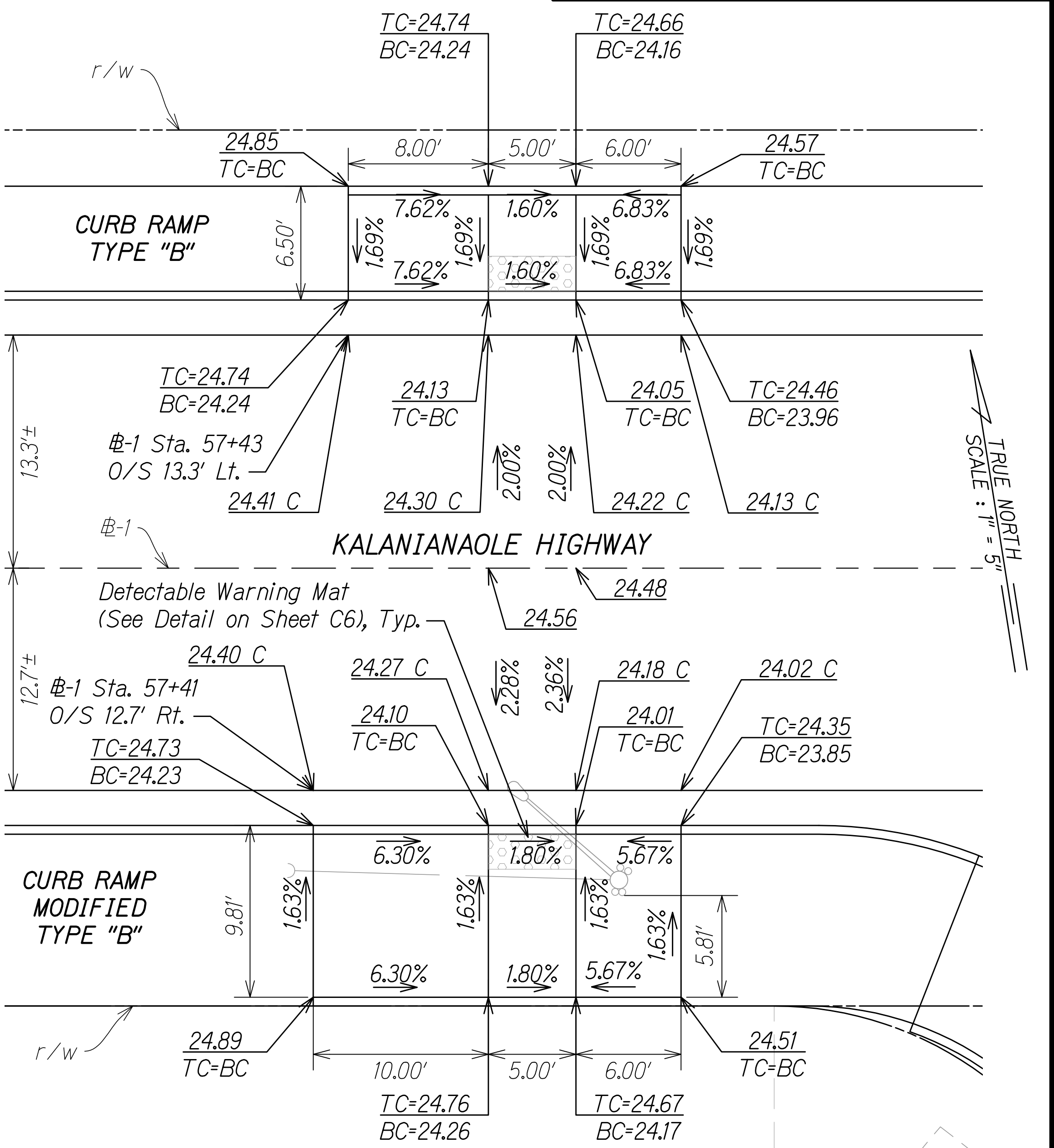
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(059)	2021	67	243



**CURB RAMP AT BASELINE 1 STA. 48+58 Lt.**  
SCALE: 1" = 5'

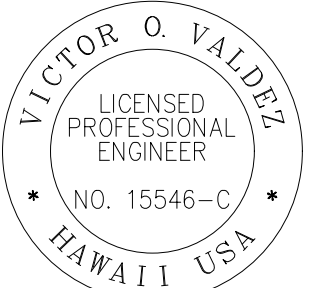
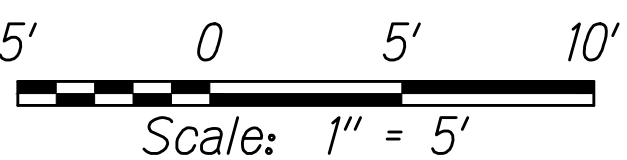


**CURB RAMP AT BASELINE 1 STA. 62+60 Rt.**  
SCALE: 1" = 5'



**CURB RAMP AT BASELINE 1 STA. 57+43 Lt. & STA. 57+41 Rt.**  
SCALE: 1" = 5'

GRAPHIC SCALE:



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HIGHWAYS DIVISION

**CURB RAMP DETAILS**  
KALANIANA'OLE HIGHWAY IMPROVEMENTS PHASE 2  
Poalima Street to Vicinity of Makai Pier  
Federal-Aid Project No. NH-072-1(059)  
Scale: As Shown Date: January 2021

SHEET No. C11 OF 27 SHEETS



CURVE DATA:

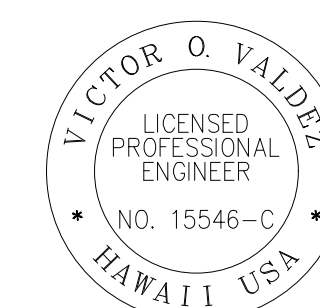
LINE DATA:

<i>LINE</i>	Ⓐ	Ⓑ
<i>Az</i>	243°39'53"	243°39'53"
<i>Distance</i>	9.92'	9.24'
<i>LINE</i>	Ⓒ	Ⓓ
<i>Az</i>	134°05'53"	134°05'53"
<i>Distance</i>	10.25'	9.59'

NOTES:

1. (A) *Transition from Standard Curb and Gutter to Rolled Curb, See City and County of Honolulu DPW Std R-6.*
2. *For Intersection Details, See Intersection Layout Plan R45*

GRAPHICAL SCALE:



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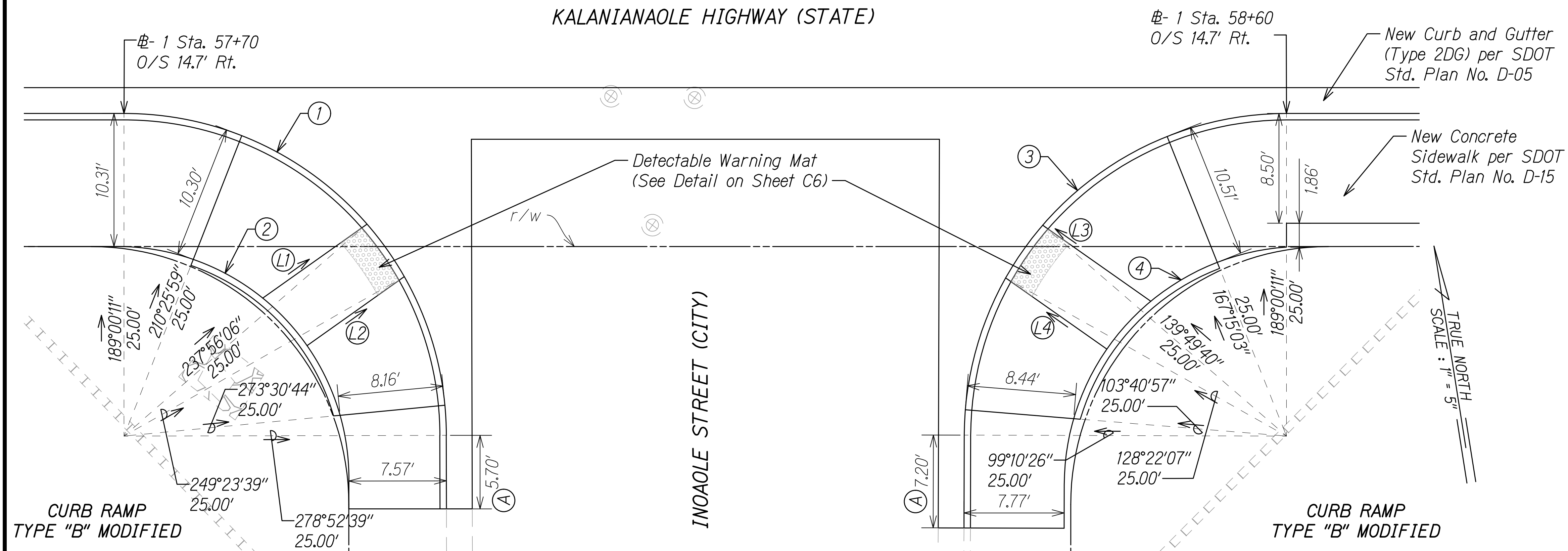
### CURB RAMP DETAILS

Federal-Aid Project No. NH-072-1(059)

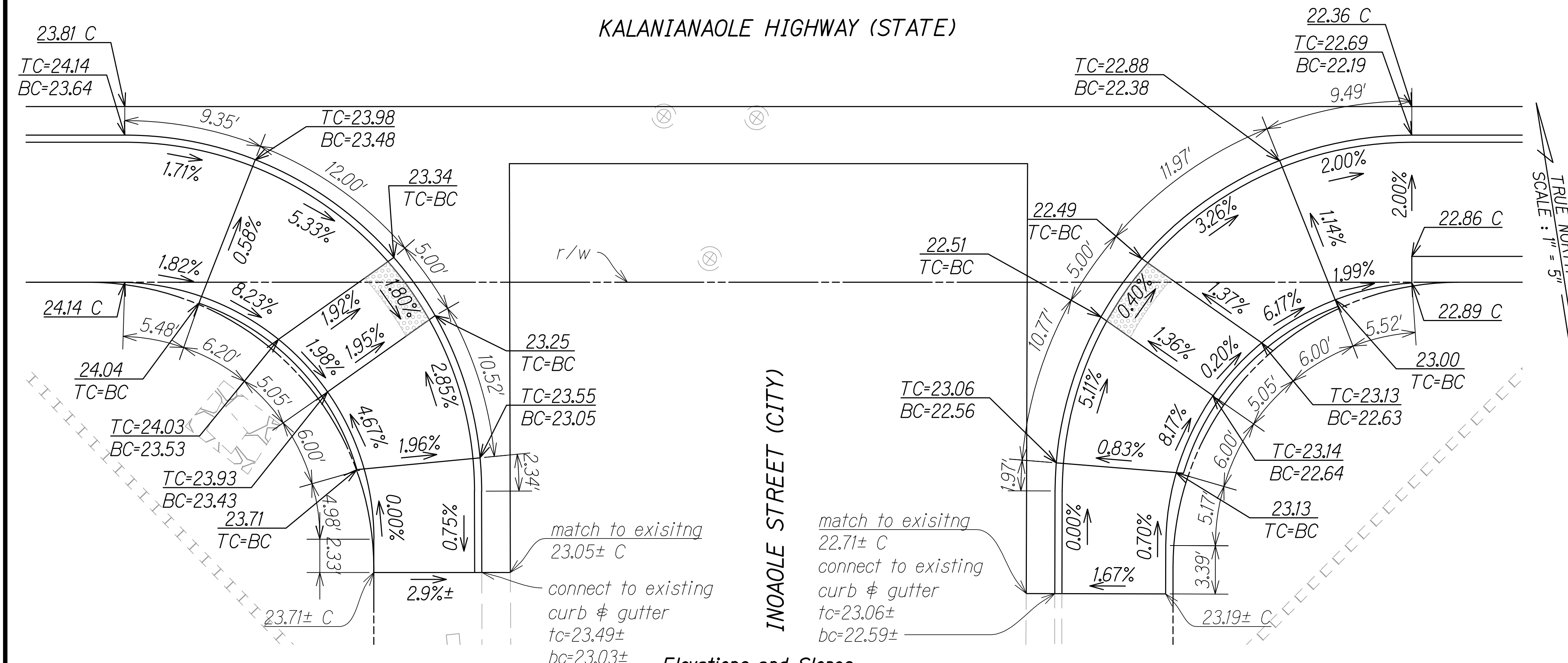
Scale: As Shown

*Date: January 2021*

SHEET No. C12 OF 27 SHEETS



### Horizontal Data



### Elevations and Slopes

KALANIANA'OLE HIGHWAY AND INOA'OLE STREET (MAUKA SIDE)

SCALE: 1" = 5'

C:\CIVIL 3D PROJECTS\2017\_002.000 DOT KAL HWY RESURFACING POALIMA TO HULI\01 CE DWG\C12 CURB RAMP DETAILS.DWG 11/4/2020 10:00 AM