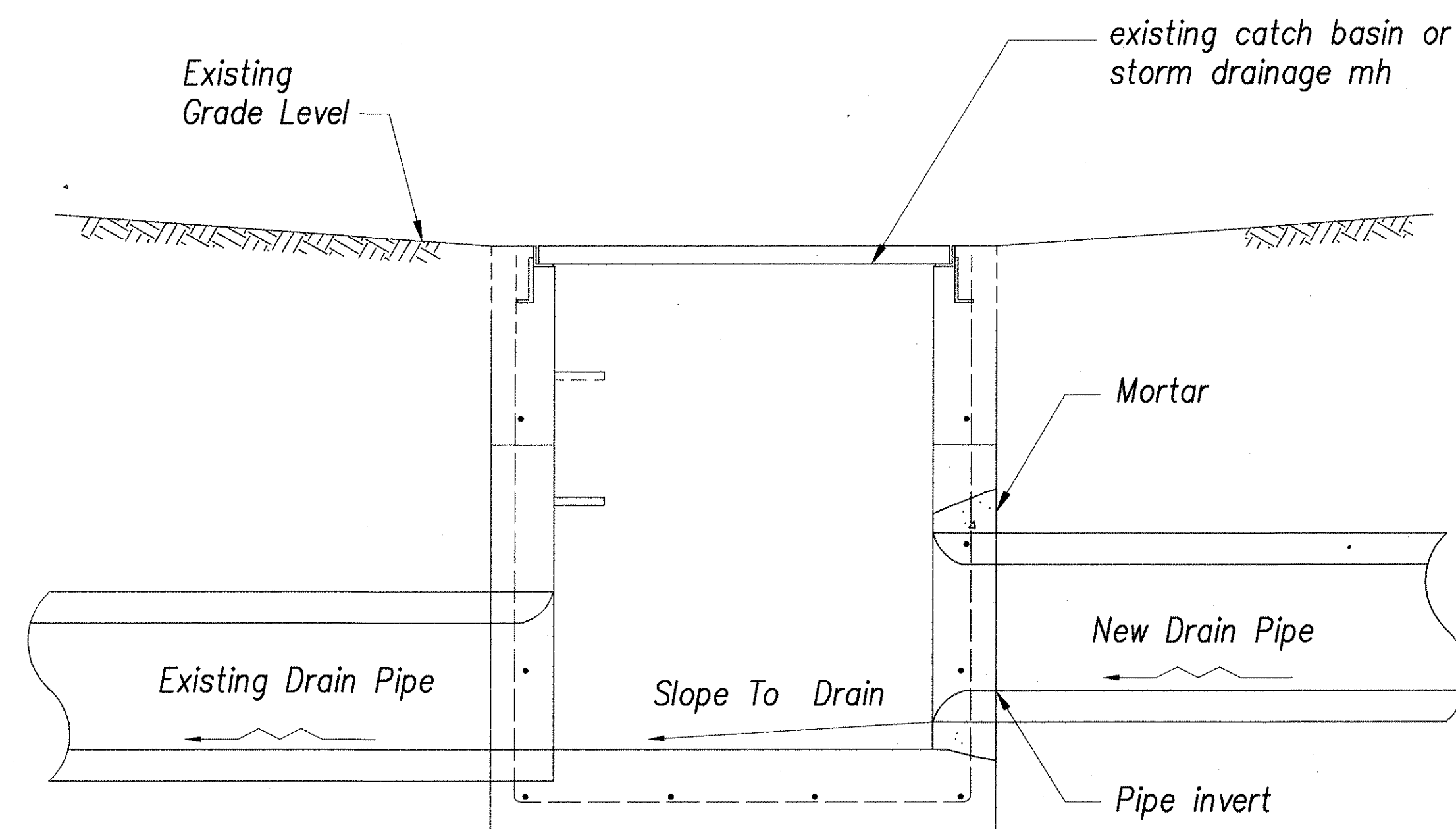
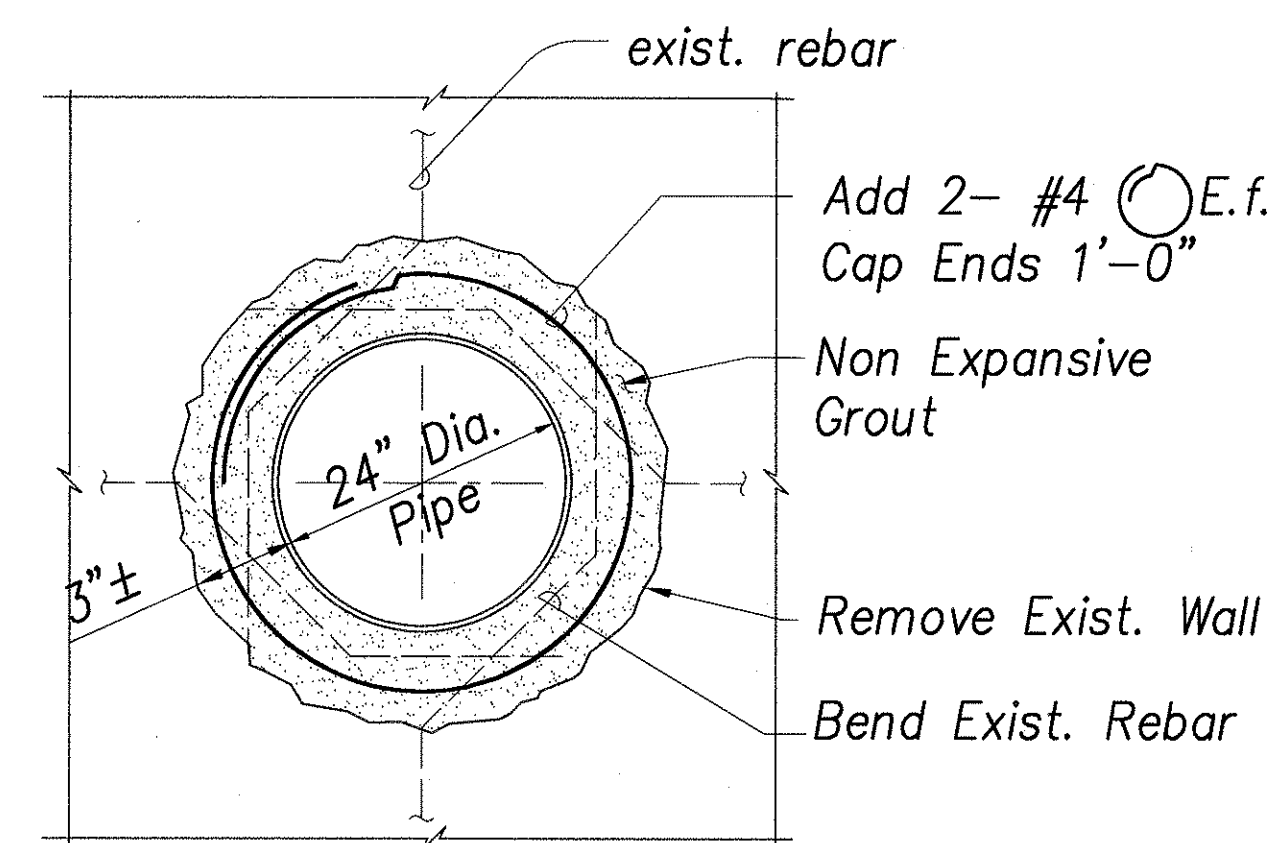


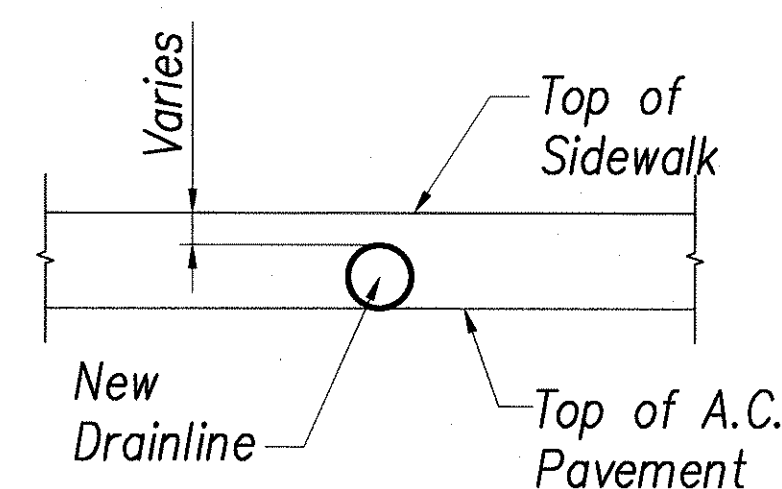
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	73	86



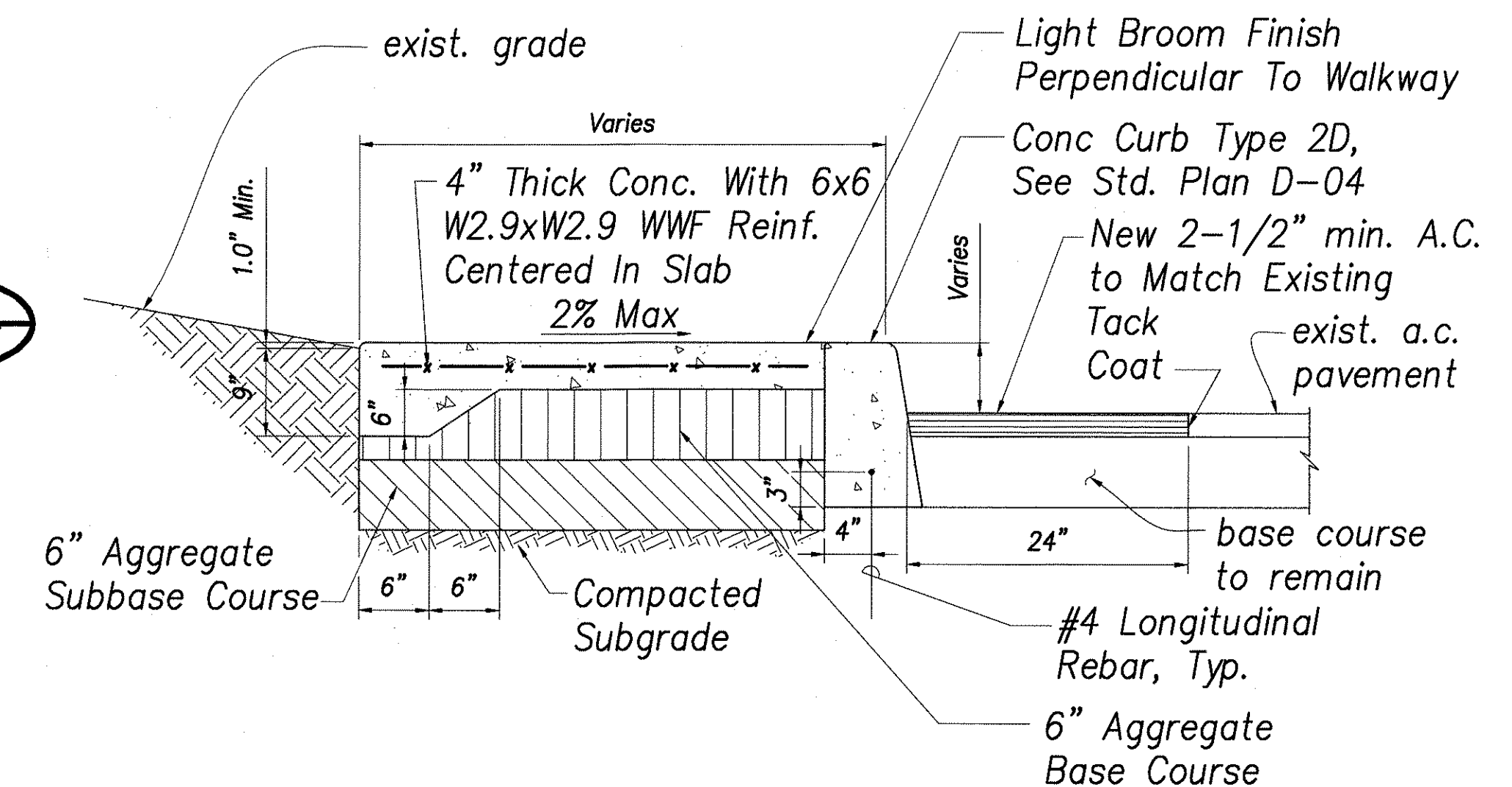
CONNECTION TO EXISTING CATCH BASIN DETAIL 1
NOT TO SCALE 22 73



DRAIN CONN. WALL PENETRATION DETAIL **2**
NOT TO SCALE 22/73



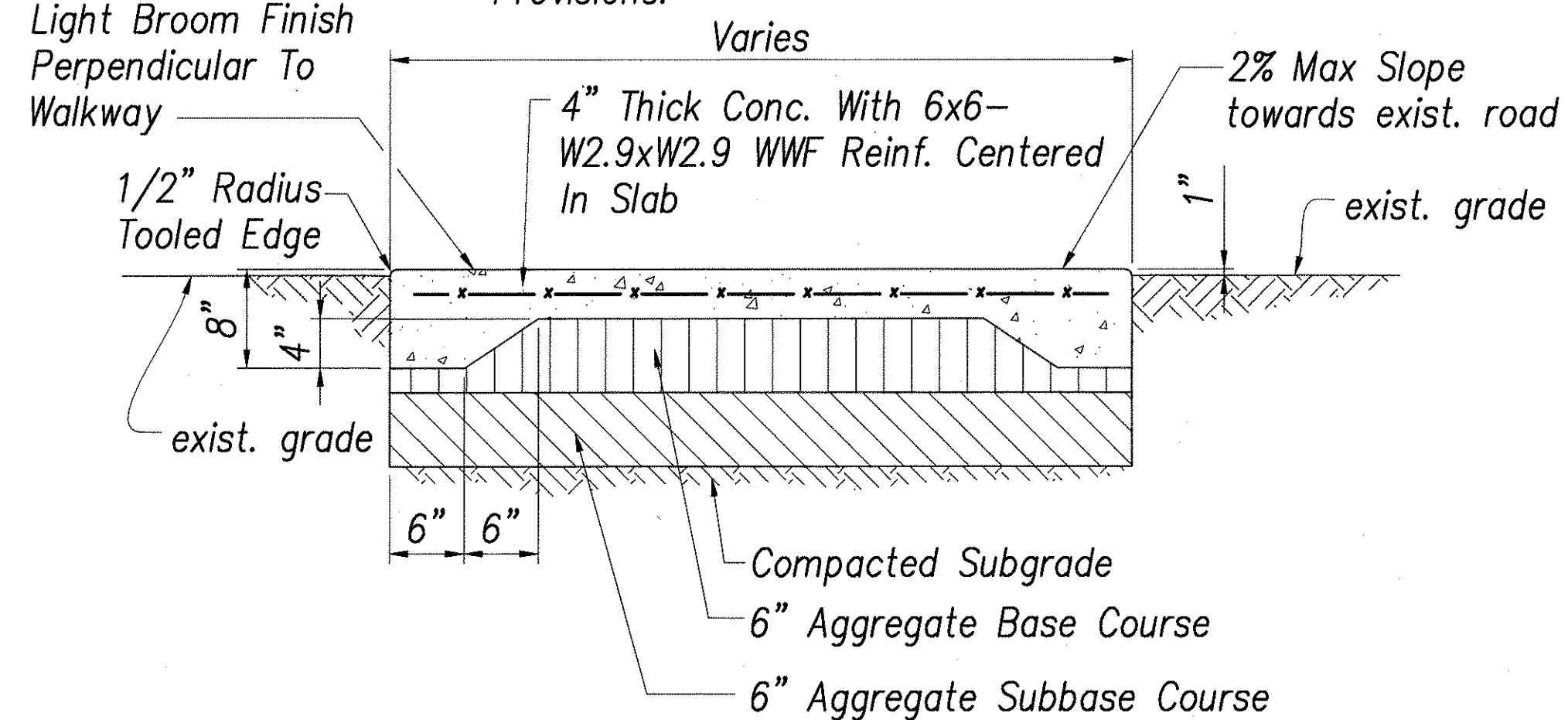
NEW DRAINLINE SECTION DETAIL 3
NOT TO SCALE
23, 24, 27, 38



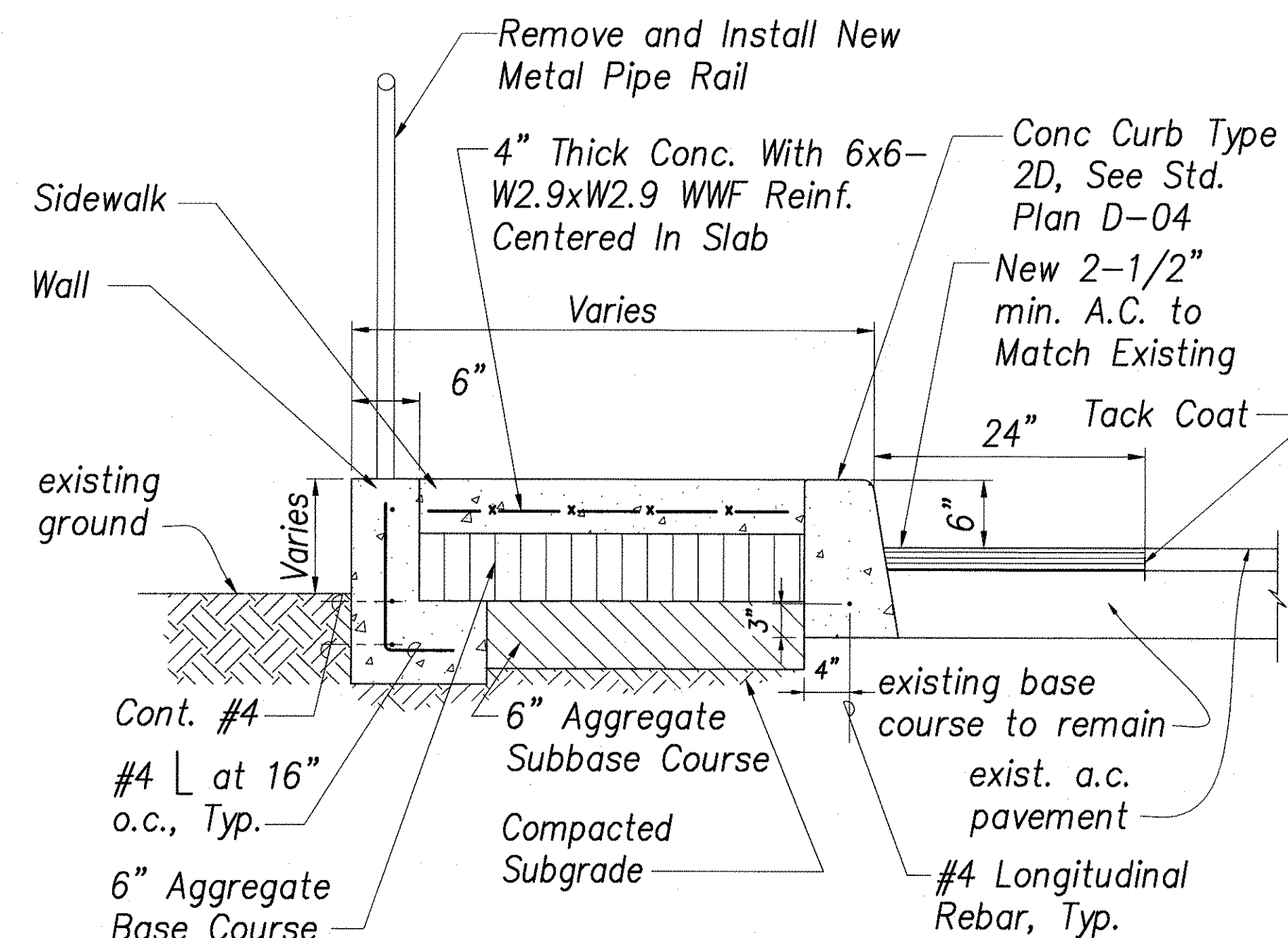
CONCRETE SIDEWALK 4
SCALE: 1"=1'-0" - 73

Note:

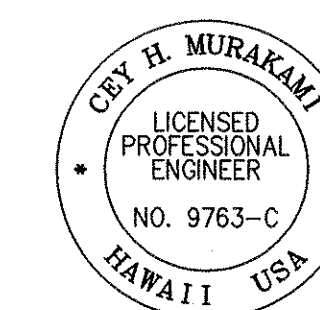
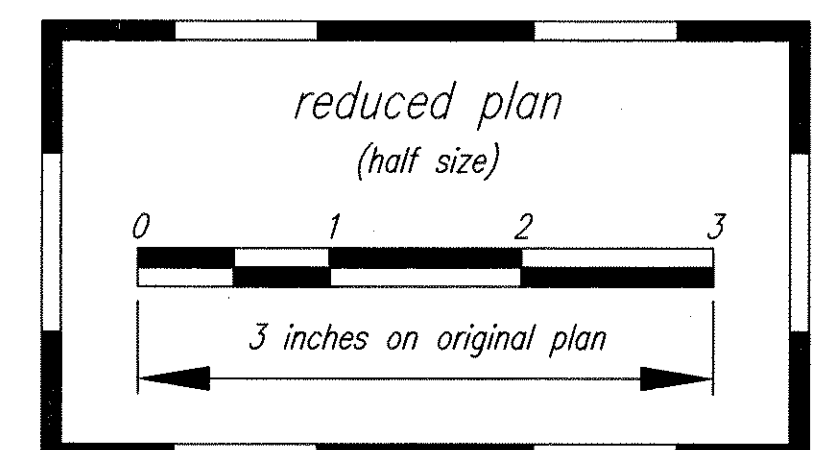
*For Concrete Sidewalk Joints,
see Section 608 of the Special
Provisions.*



CONCRETE WALKWAY 5
SCALE: 1"=1'-0" - 73



SECTION (NEAR KOHALA TRADE BLDG.)
SCALE: 1"=1'



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

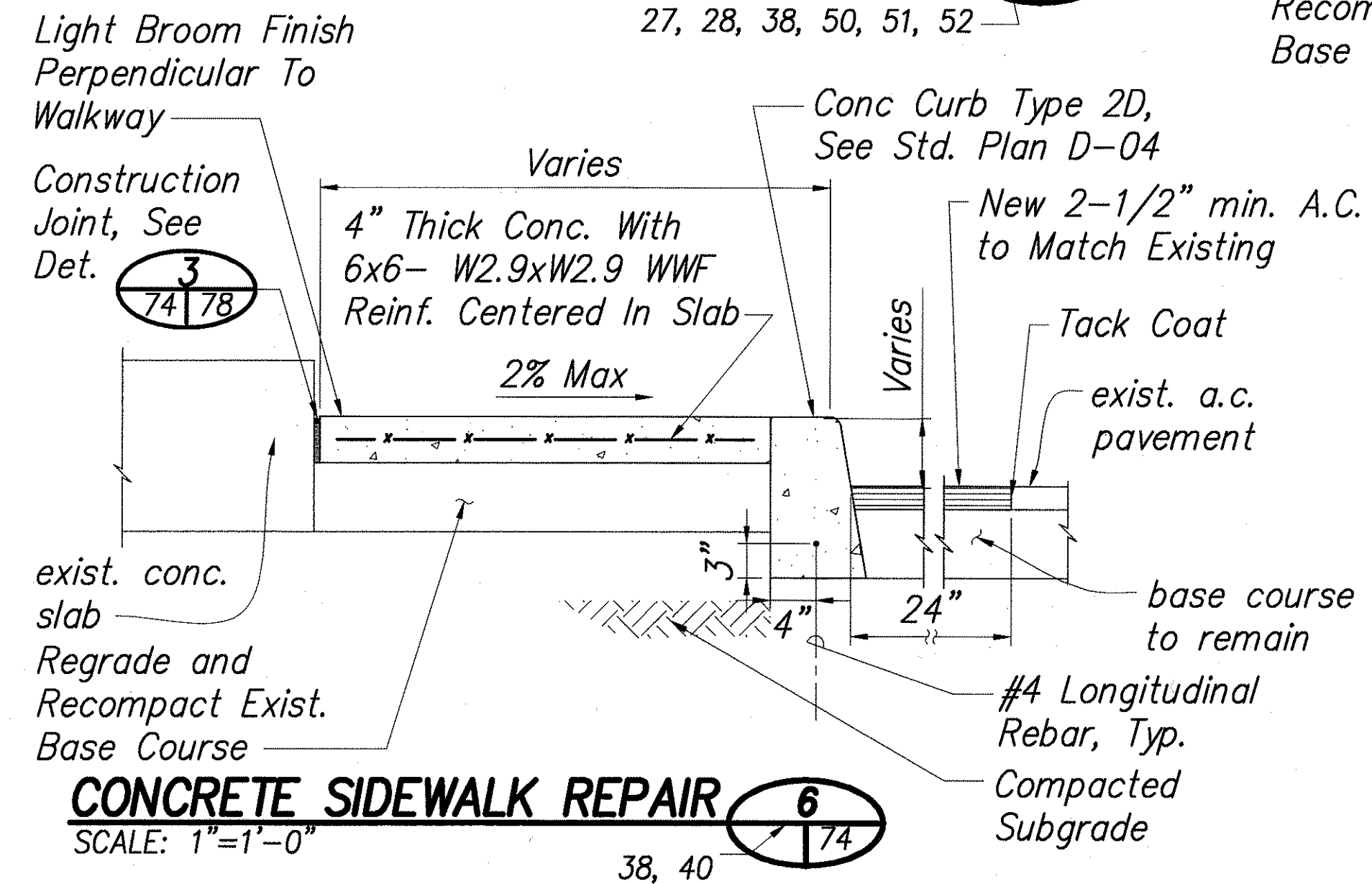
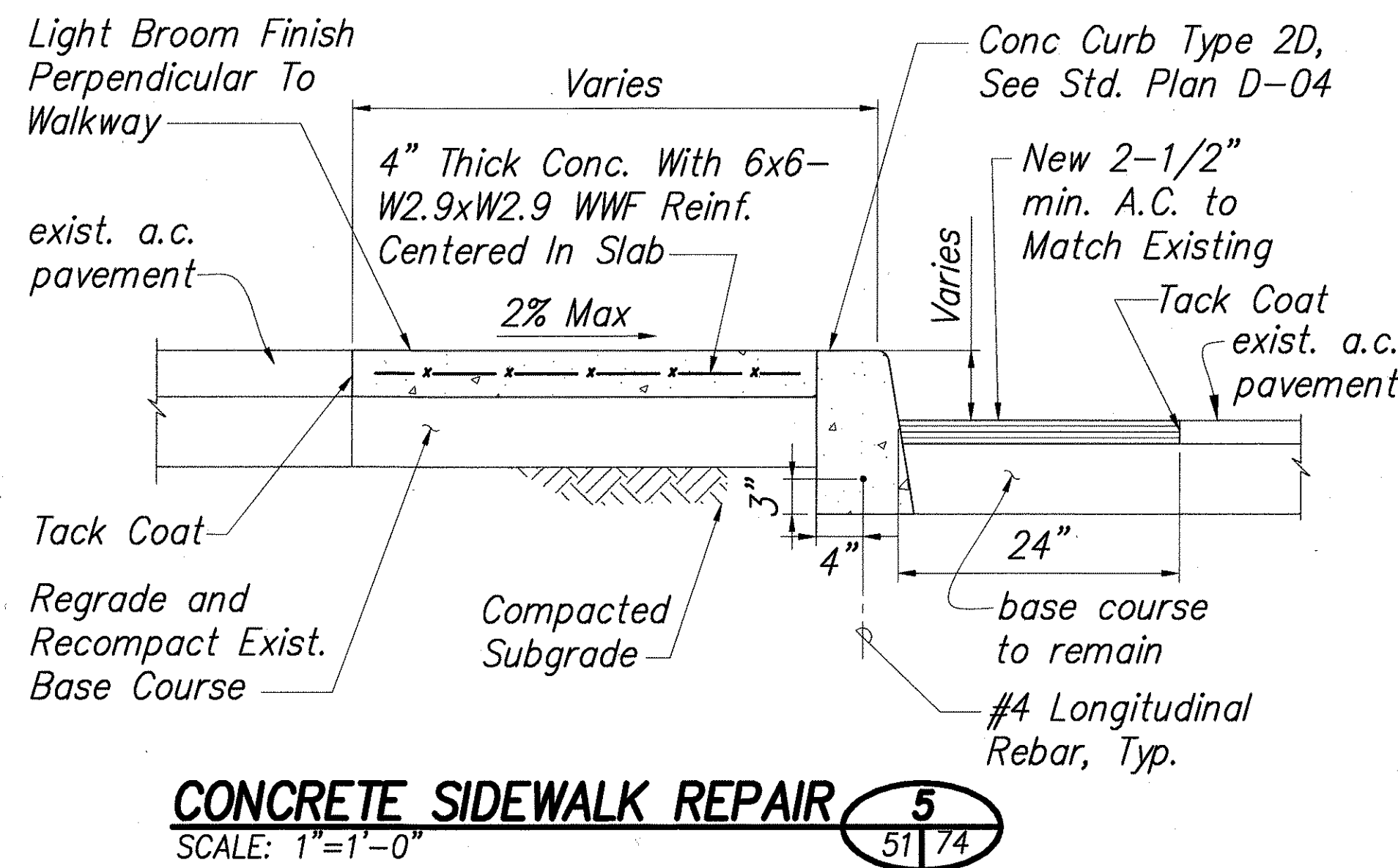
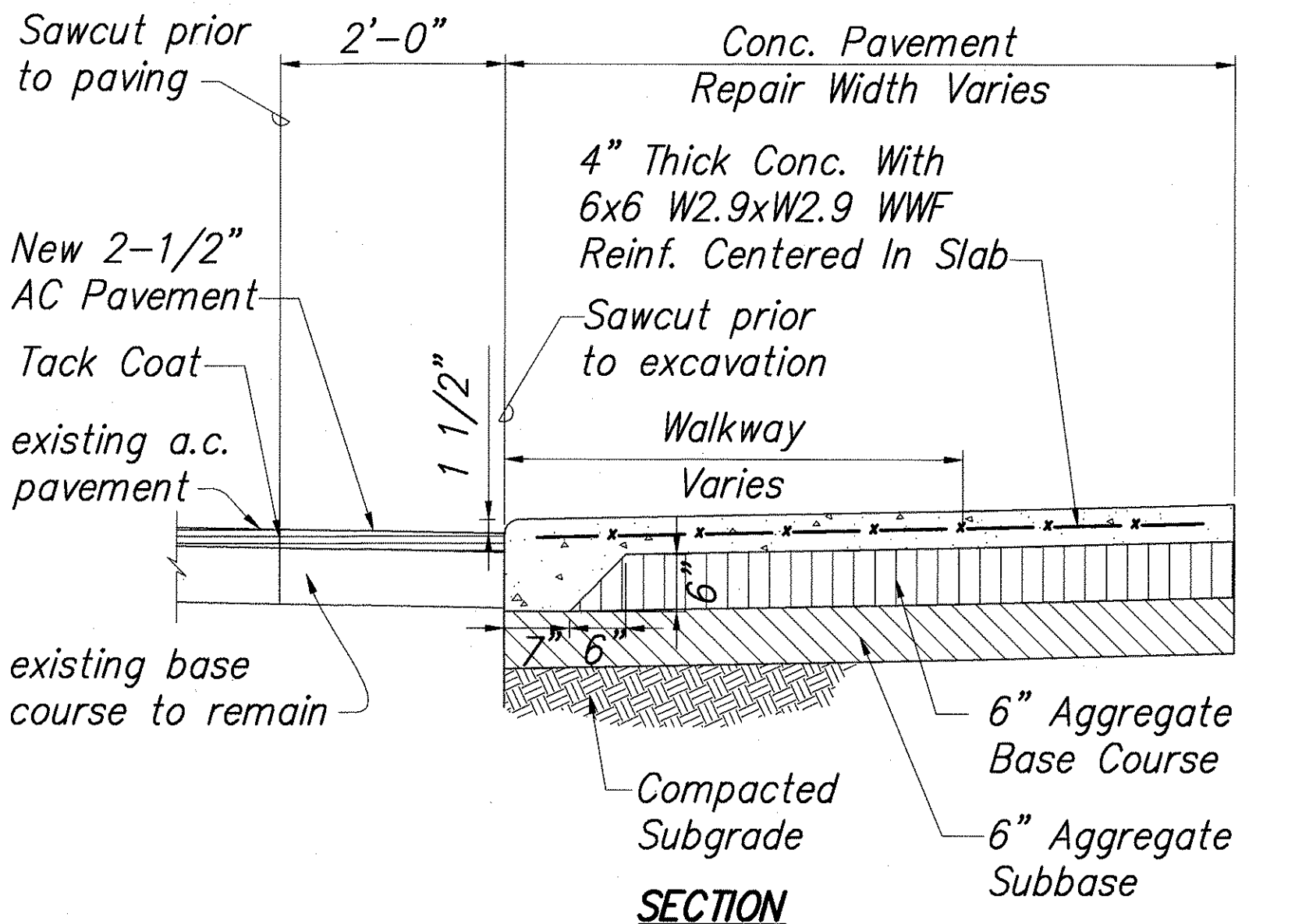
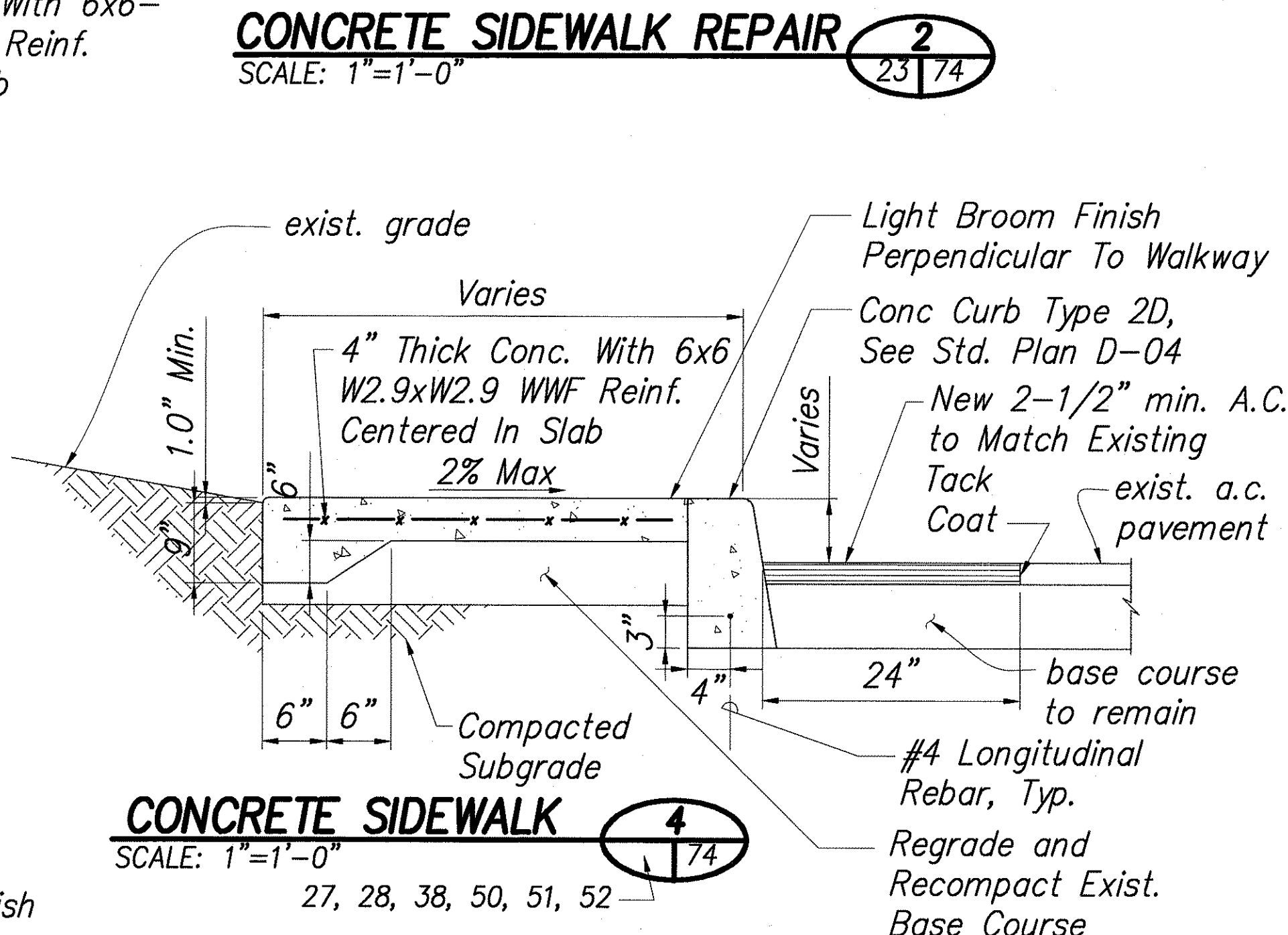
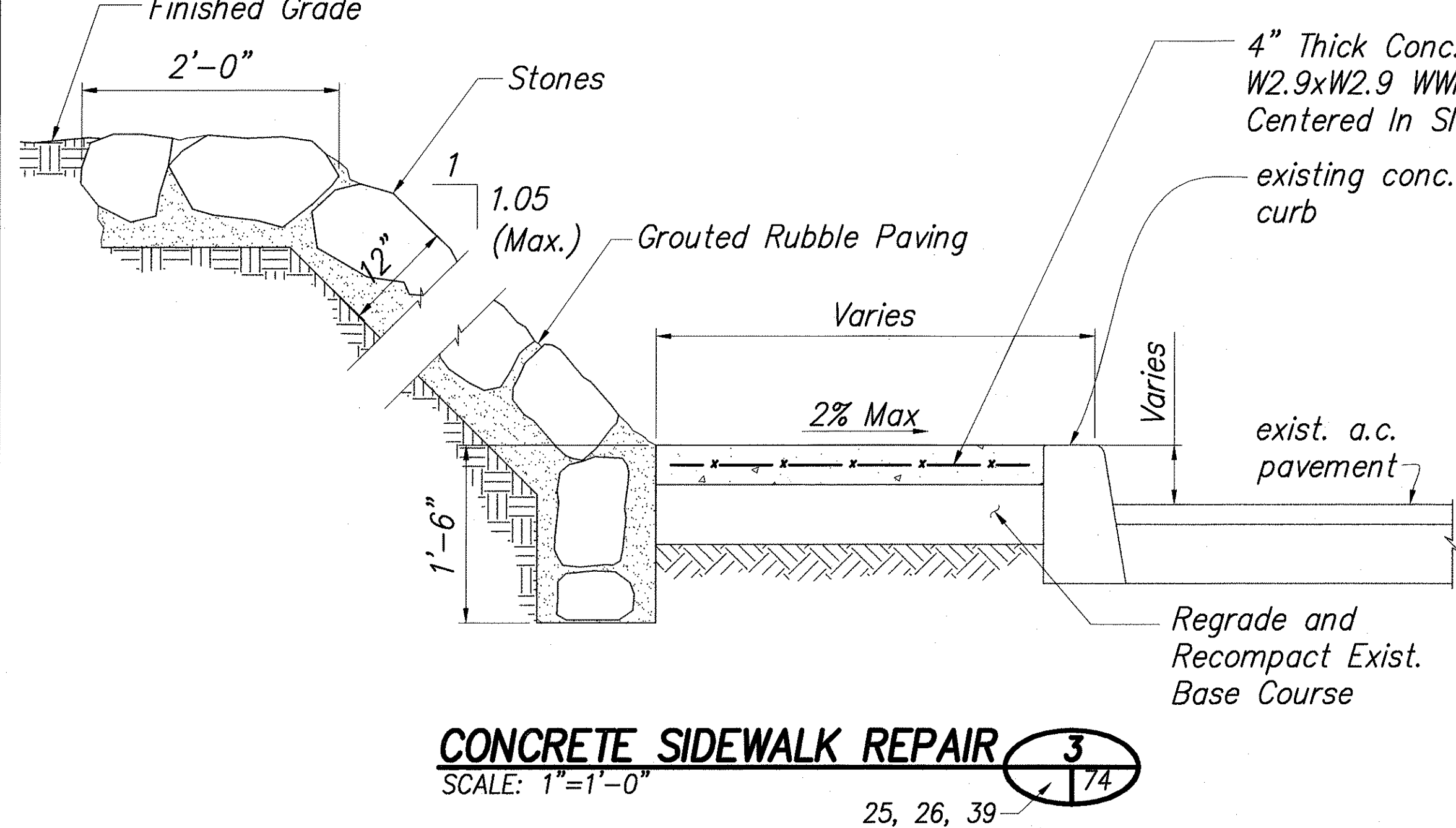
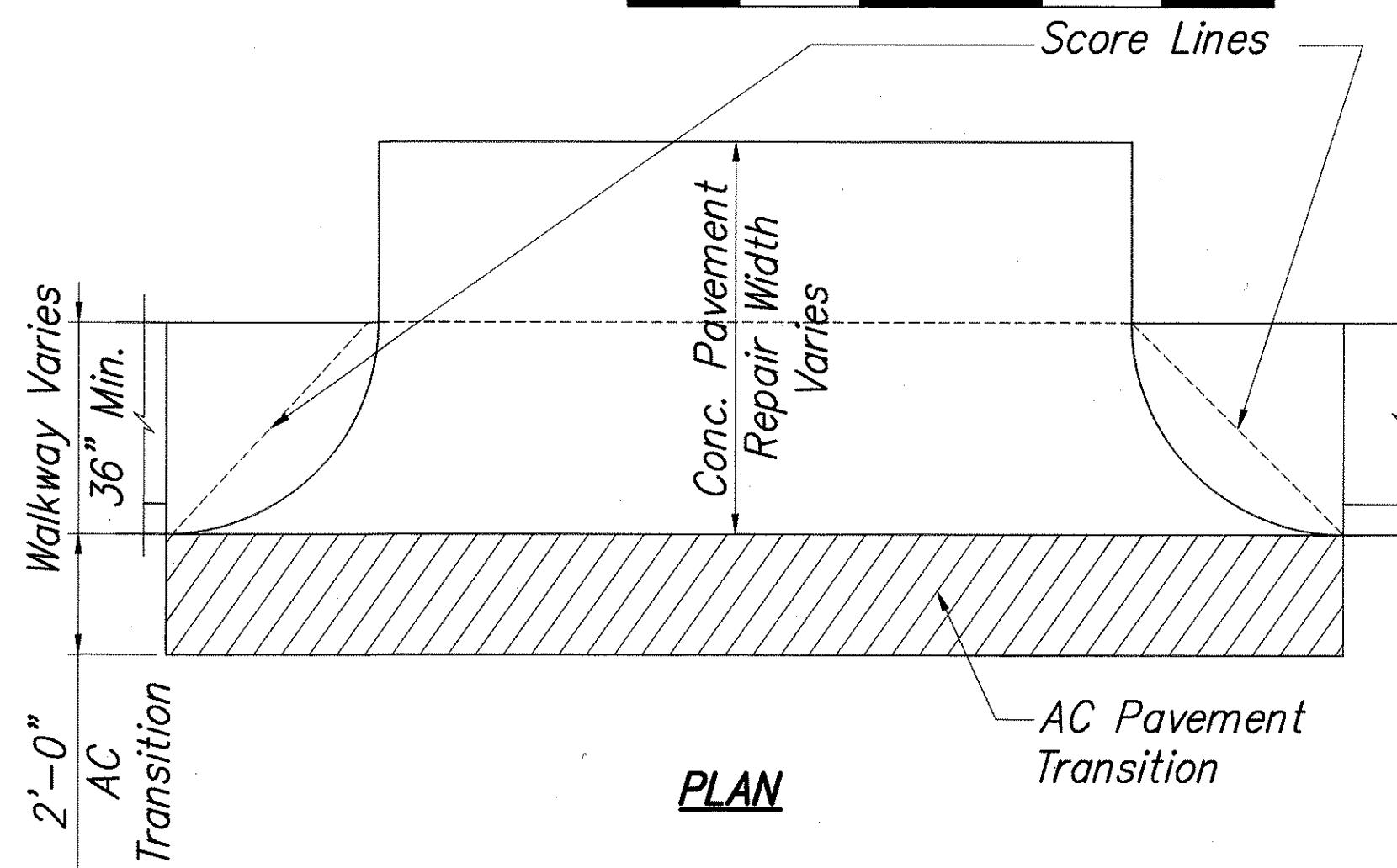
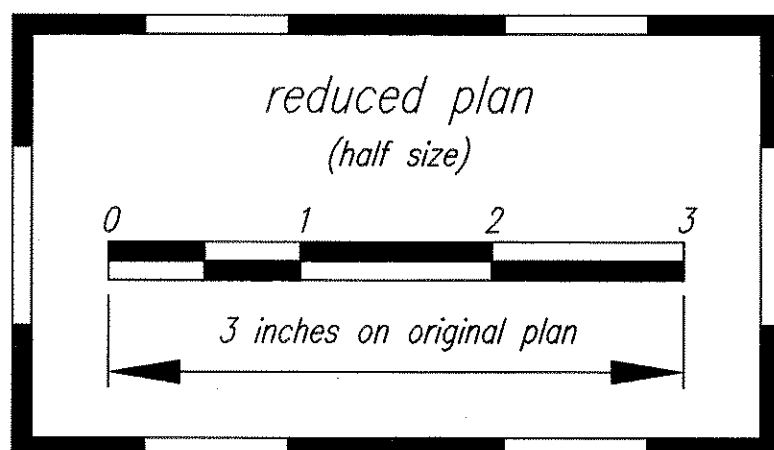
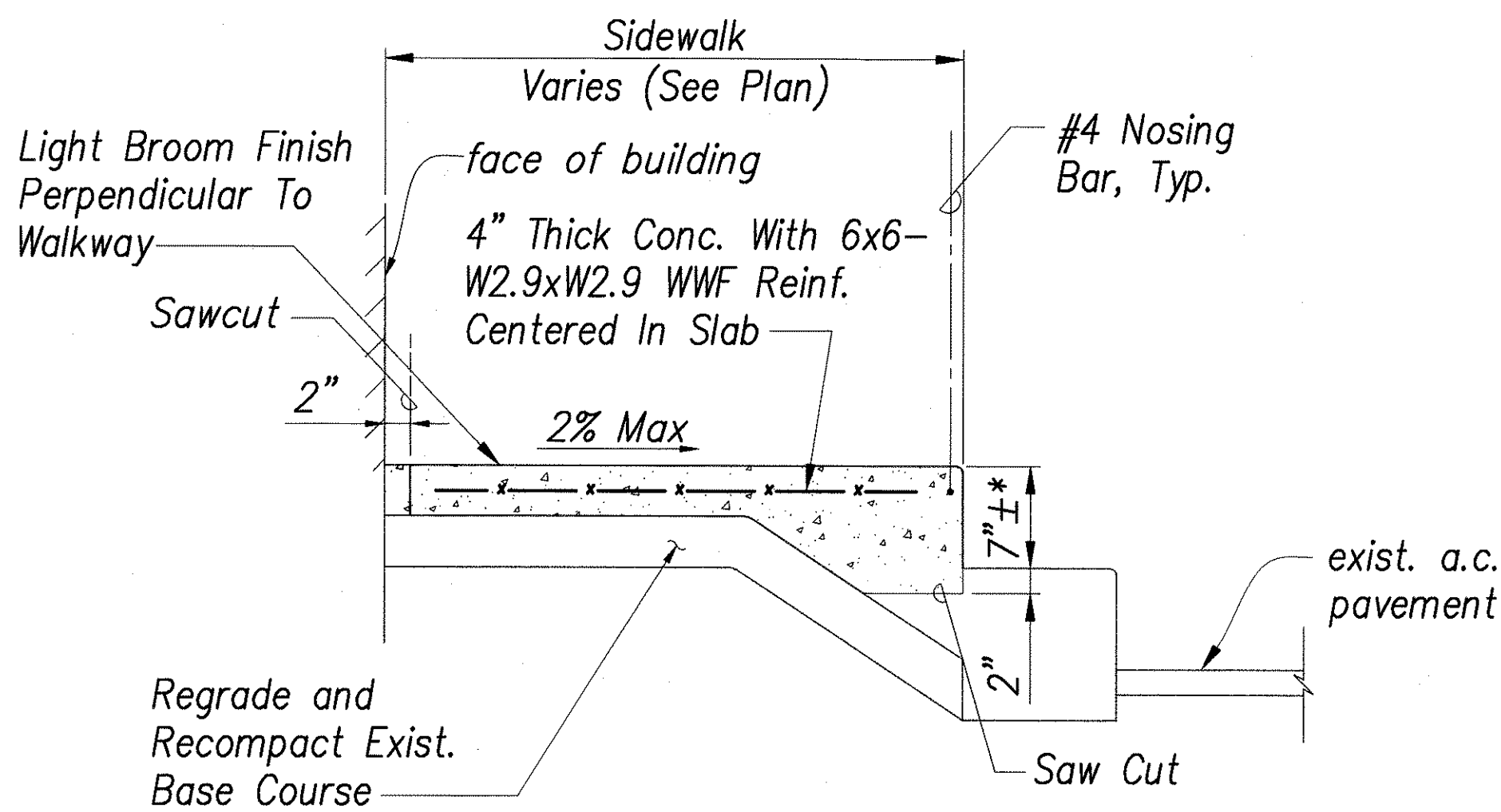
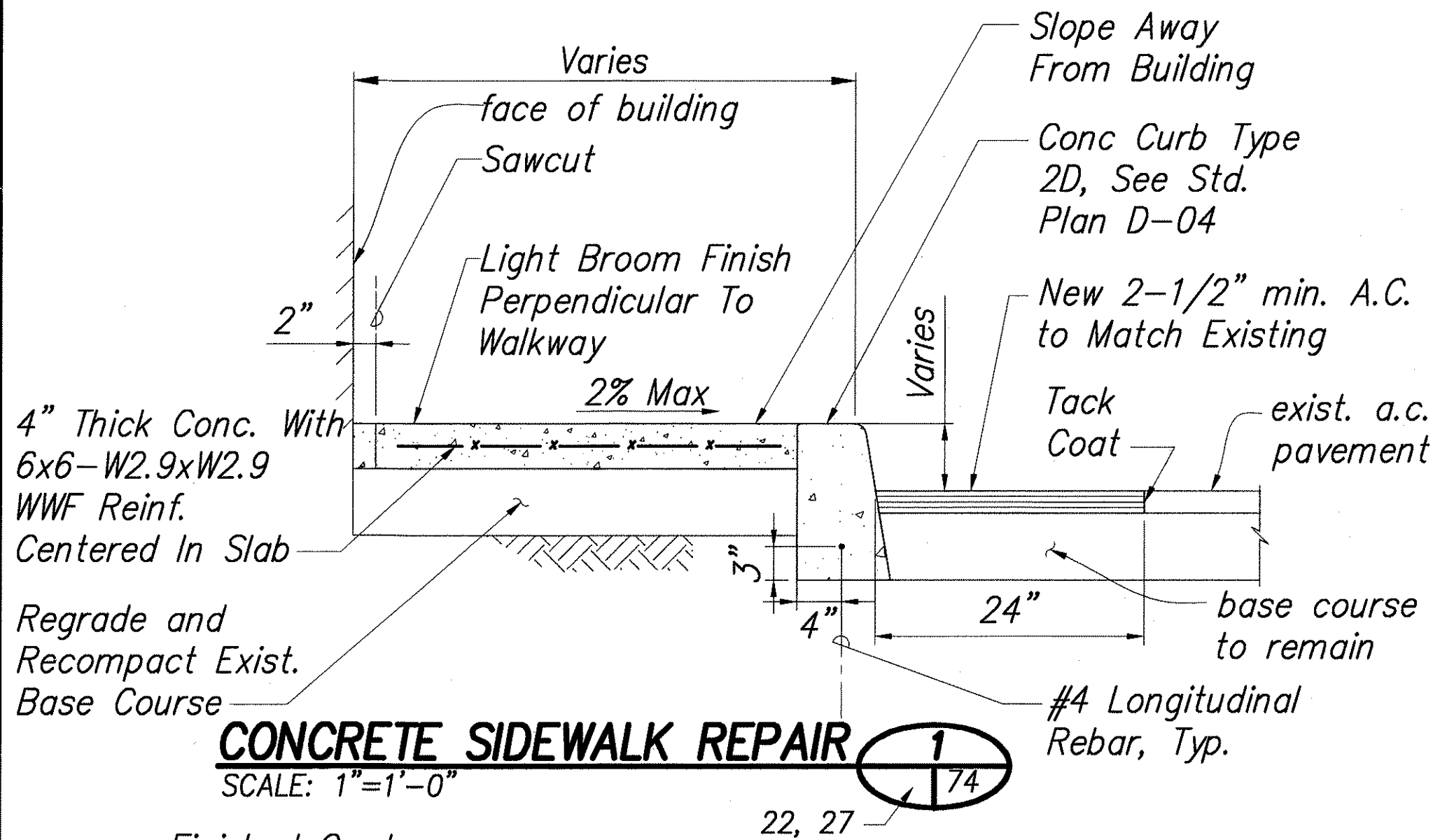
MISC. DETAILS - 01

PEDESTRIAN ACCESSIBILITY ROUTE
IMPROVEMENTS - HONOKAA, HAWI, AND KAPAAU
Federal Aid Project No. CMAQ-0100(62)

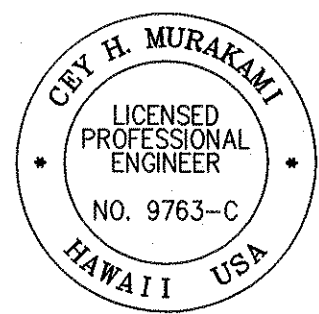
Scale: AS NOTED Date: SEPT. 2004

SHEET No. 73 OF 86 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	74	86



ORIGINAL PLAN	DATE	9/2004
DESIGNED BY	DL	9/2004
DESIGNED BY	CM	9/2004
QUANTITIES BY	TC	9/2004
CHECKED BY	ES	9/2004



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Cey H. MURAKAMI
SIGNATURE
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

MISC. DETAILS - 2

PEDESTRIAN ACCESSIBILITY ROUTE IMPROVEMENTS - HONOKAA, HAWAII, AND KAPAAU

Federal Aid Project No. CMAQ-0100(62)

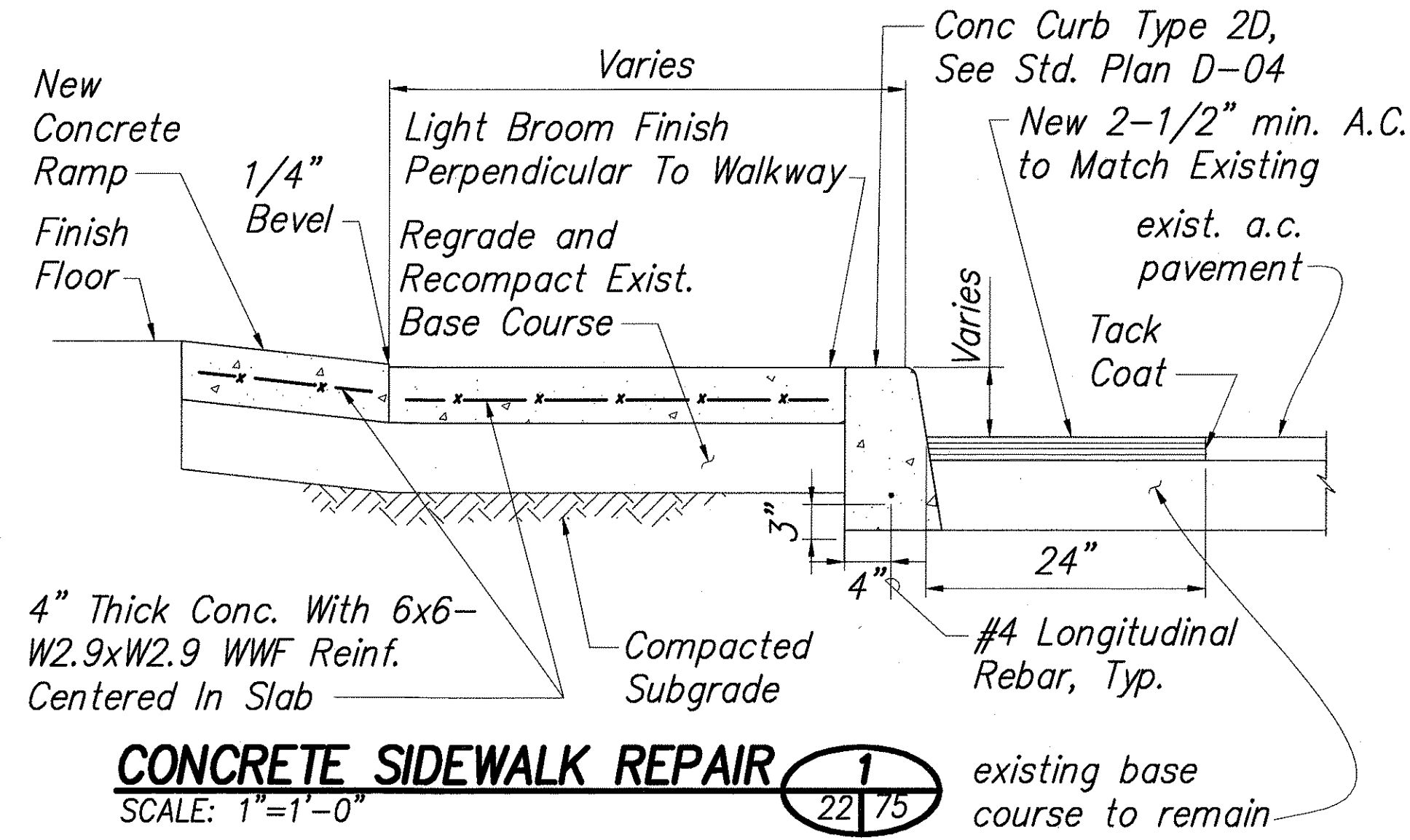
Scale: AS NOTED Date: SEPT. 2004

SHEET No. 74 OF 86 SHEETS

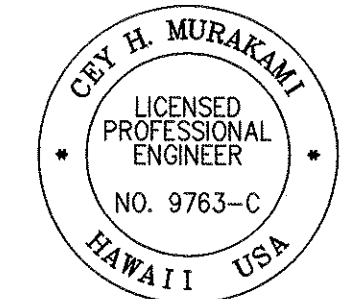
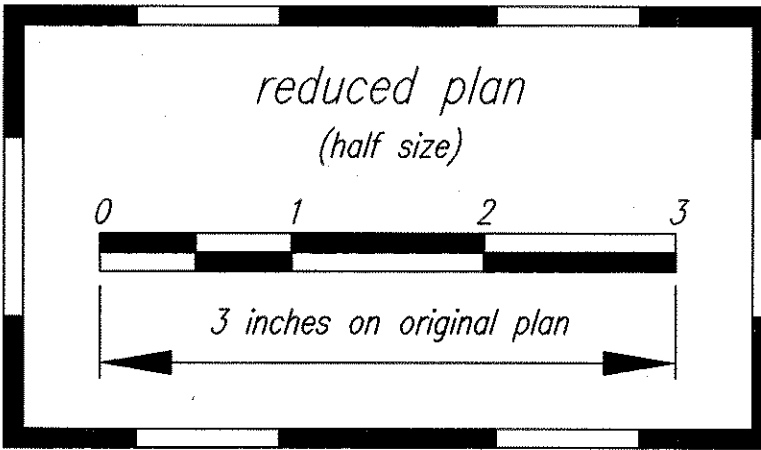
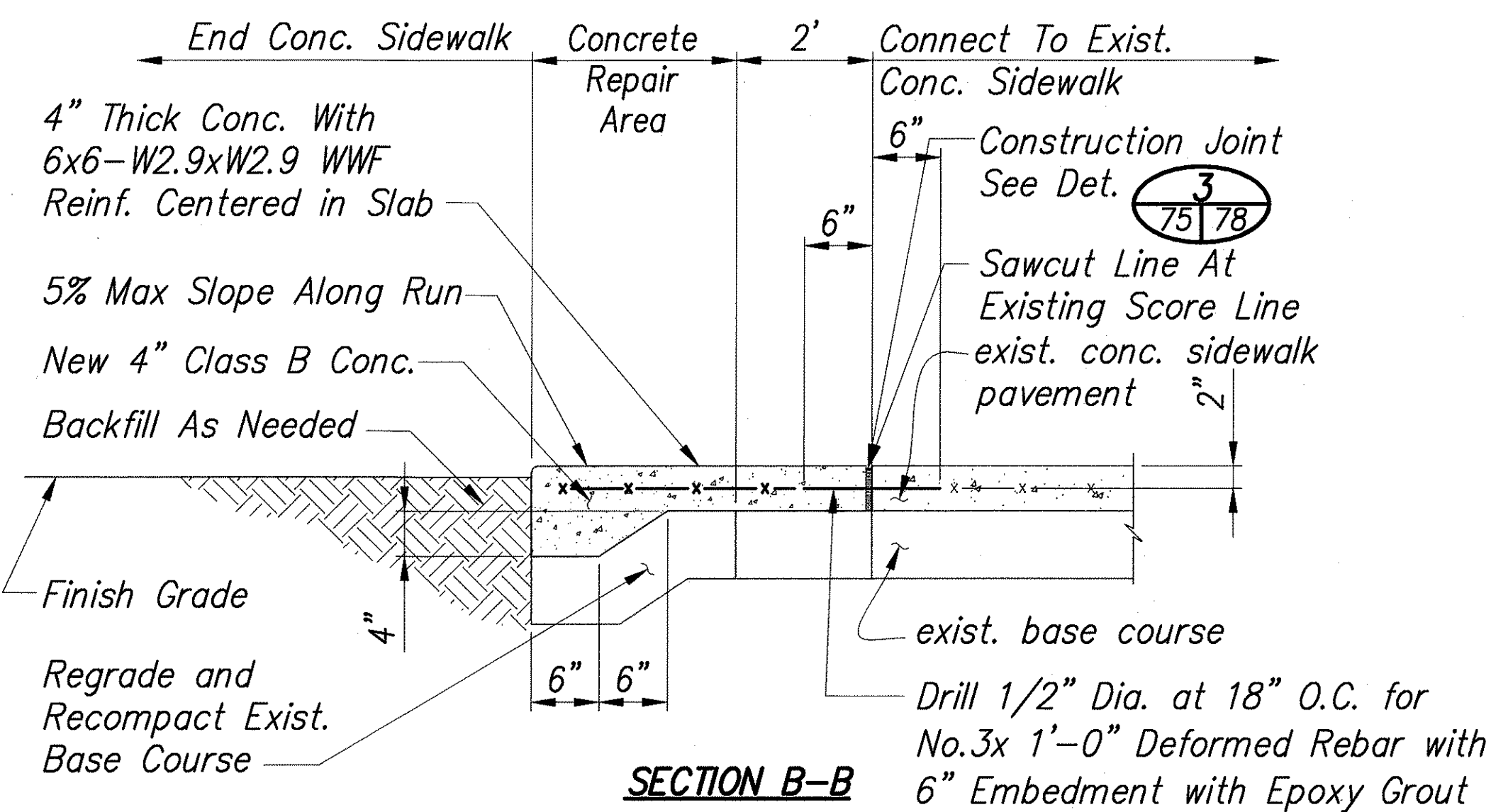
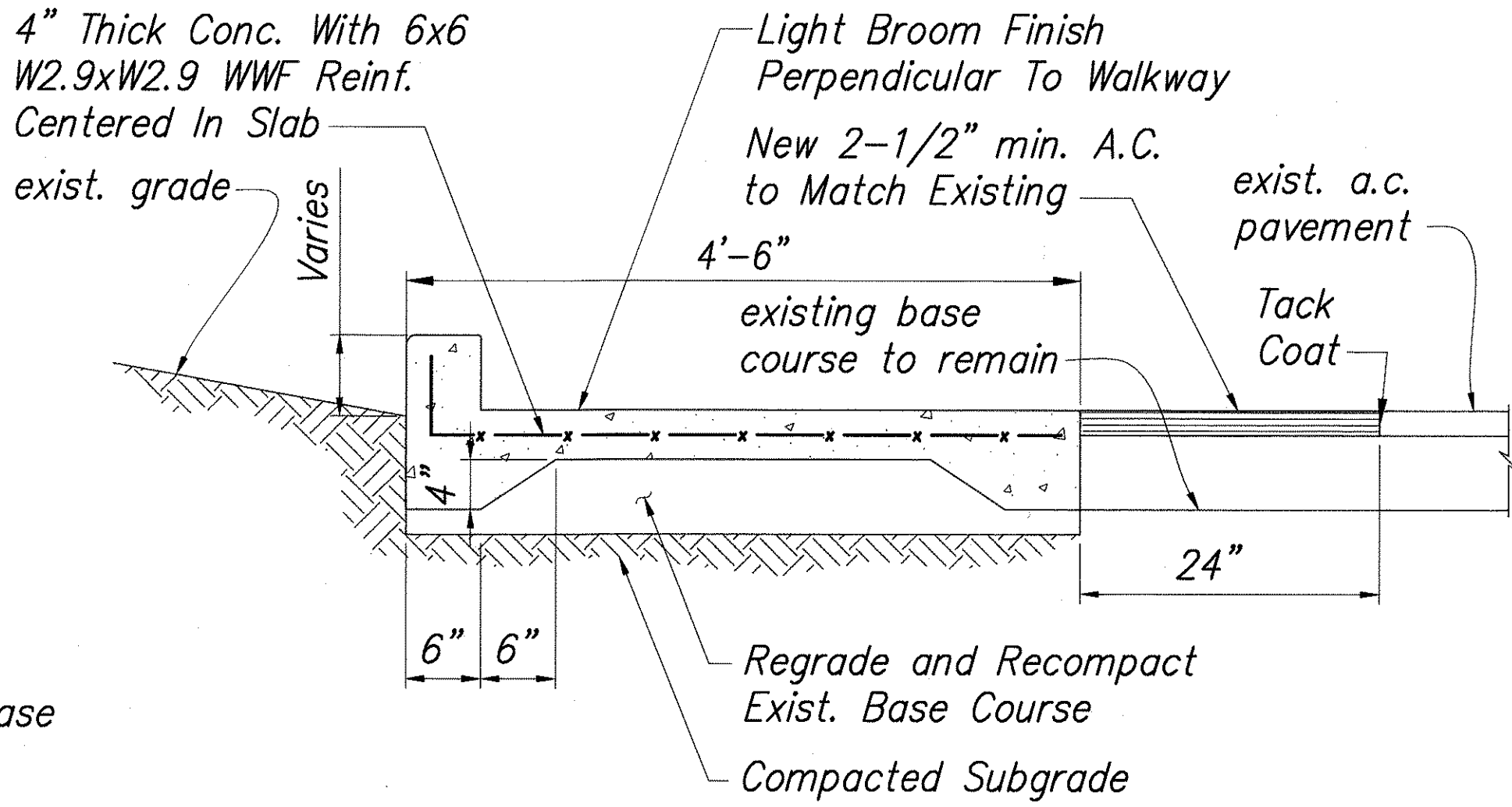
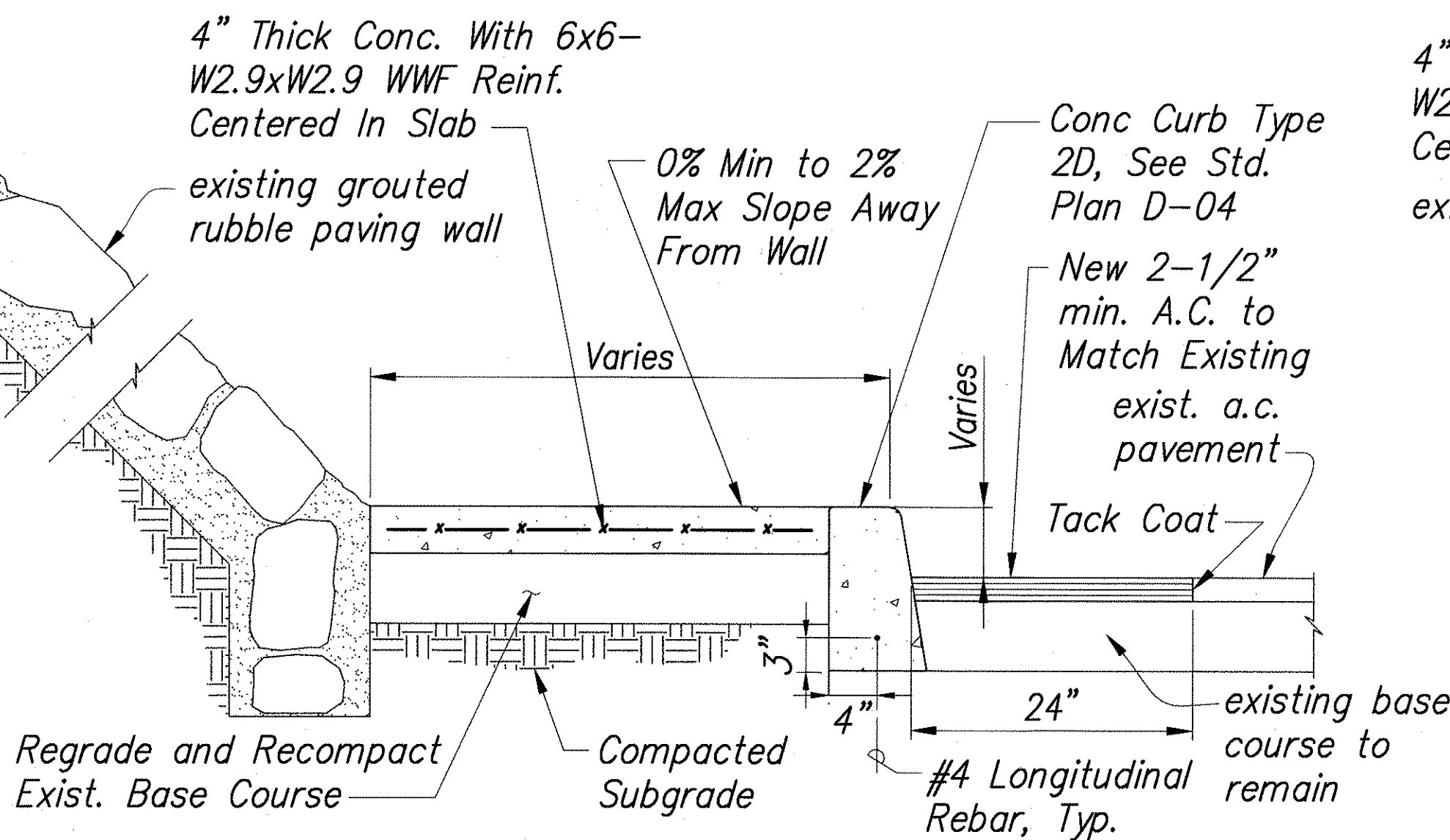
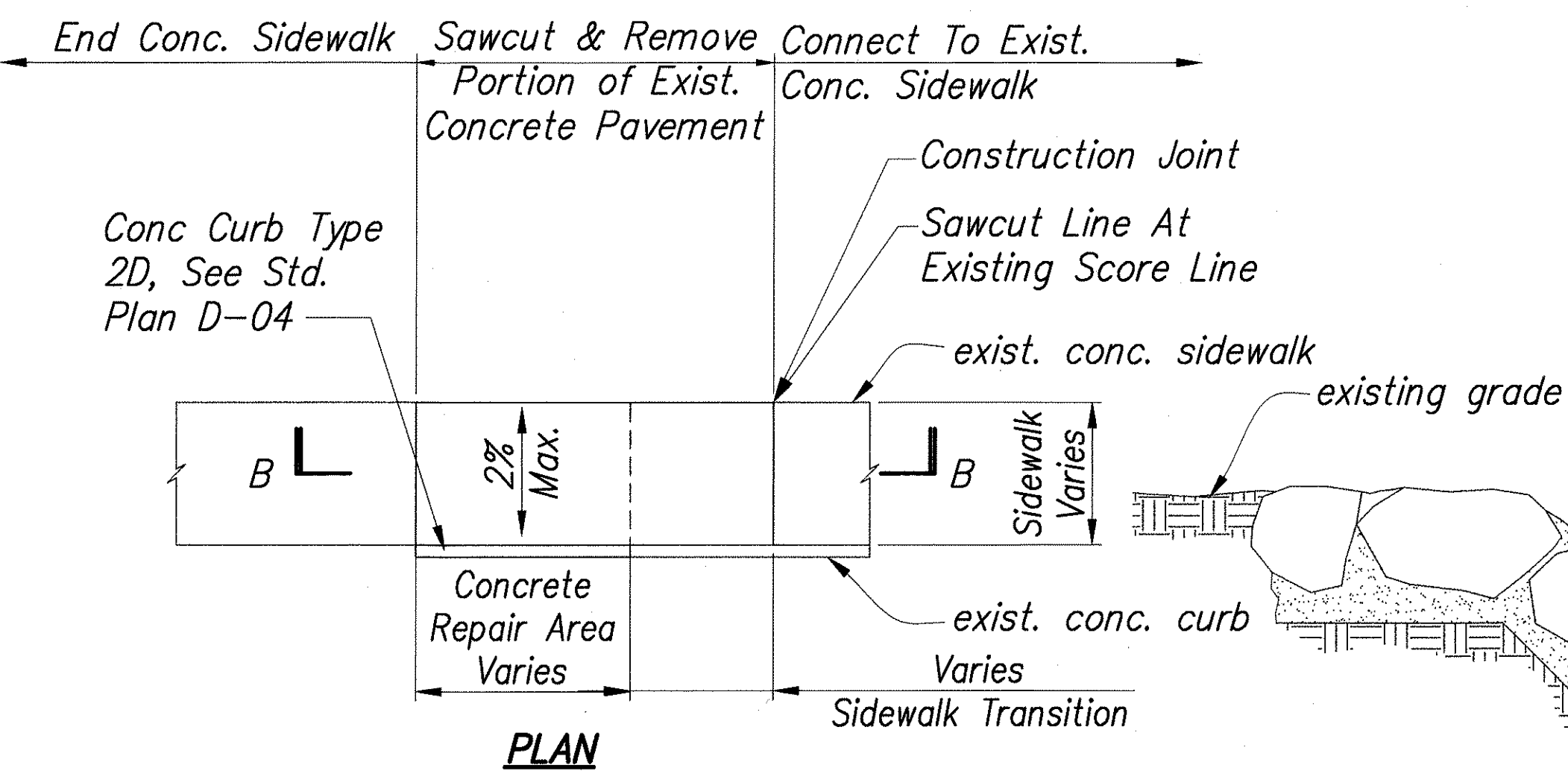
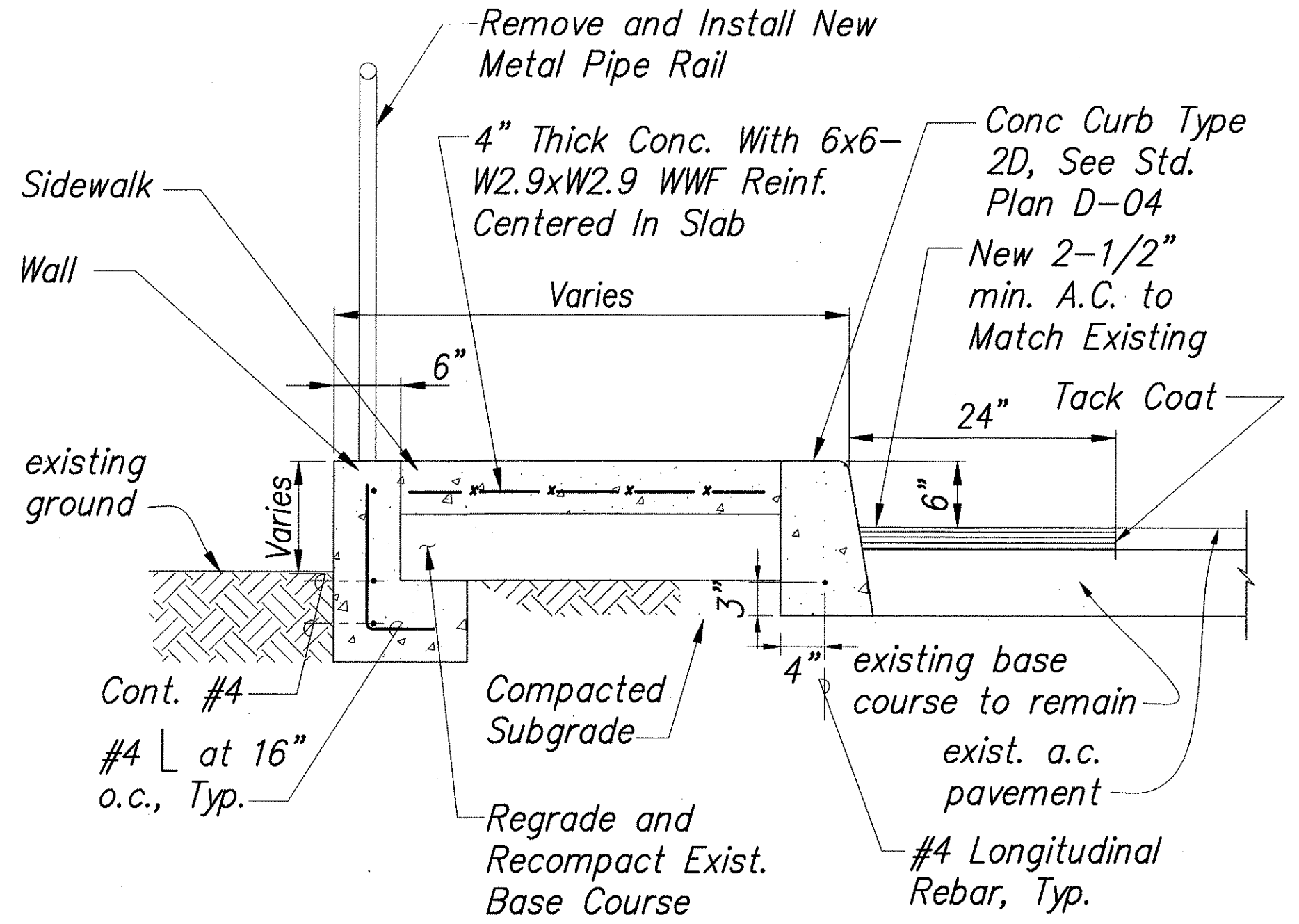
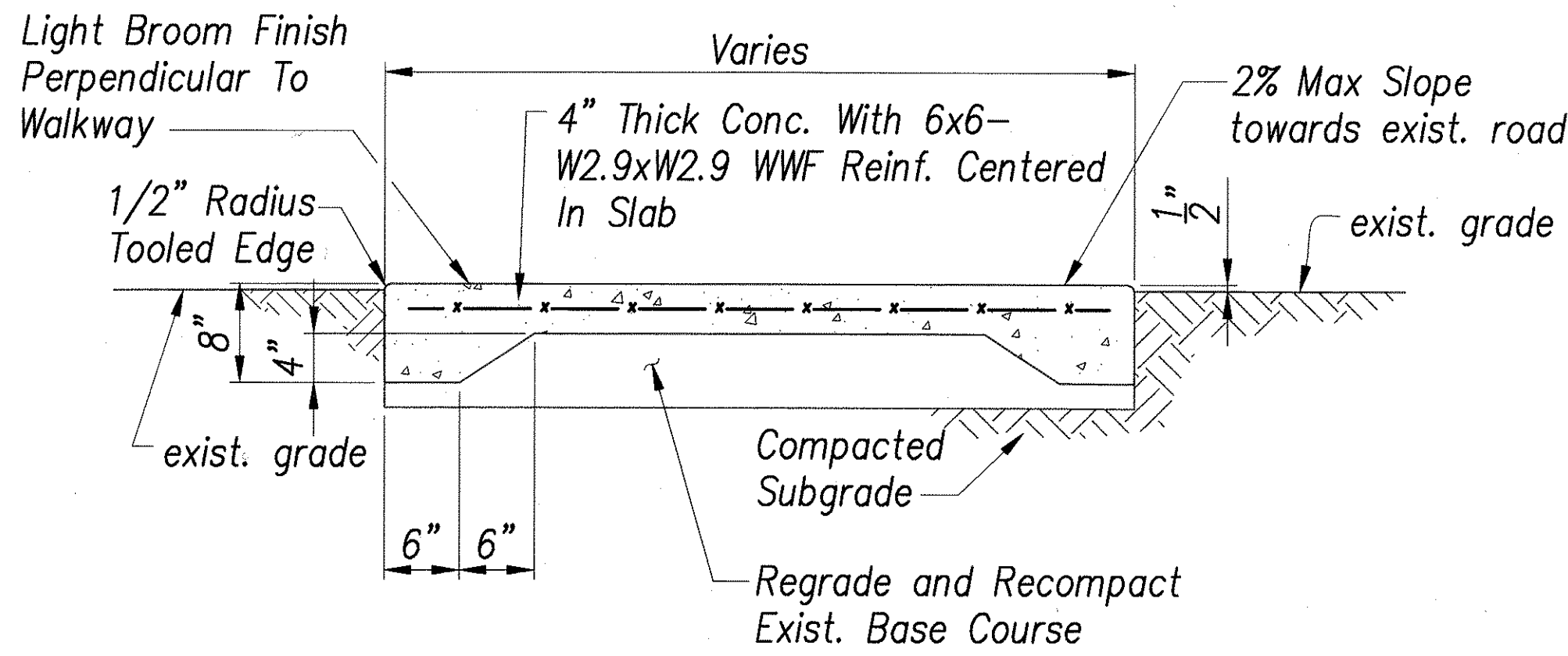
74

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	75	86



Note:
For Concrete Sidewalks Joints, see Section 608 of the Special Provisions.



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISC. DETAILS - 3

PEDESTRIAN ACCESSIBILITY ROUTE
IMPROVEMENTS - HONOKAA, HAWAII, AND KAPAAU
Federal Aid Project No. CMAQ-0100(62)
Scale: AS NOTED Date: SEPT. 2004

1'-6"

Typ.

$R=10"$ (Typ)

1'-6"

1'-6"

8"

1-1/2" l.p.s.
(or 1-3/8")

Ø Painted
Galvanized
Steel Pipe

Guardrail, Typ.

10"

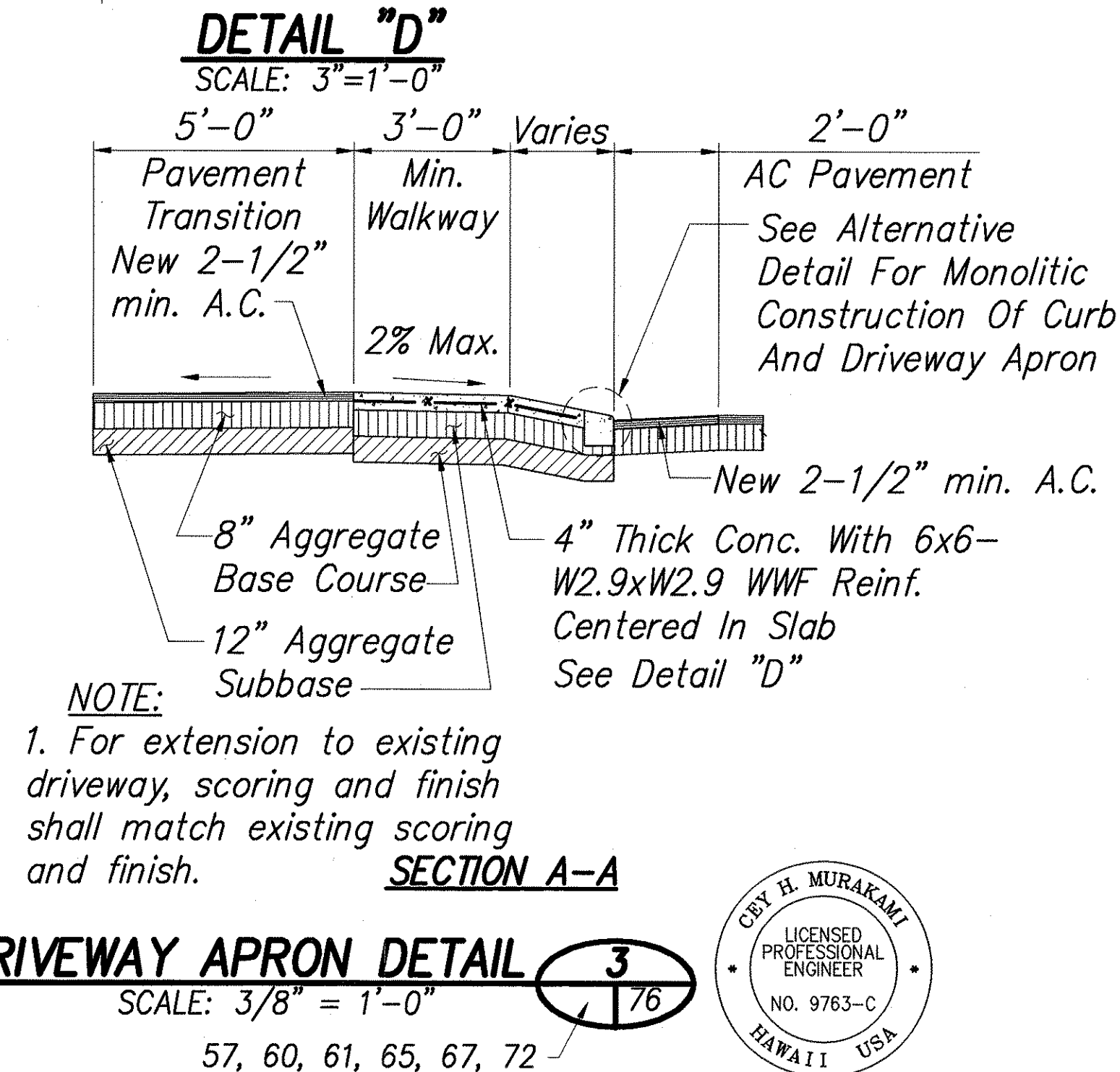
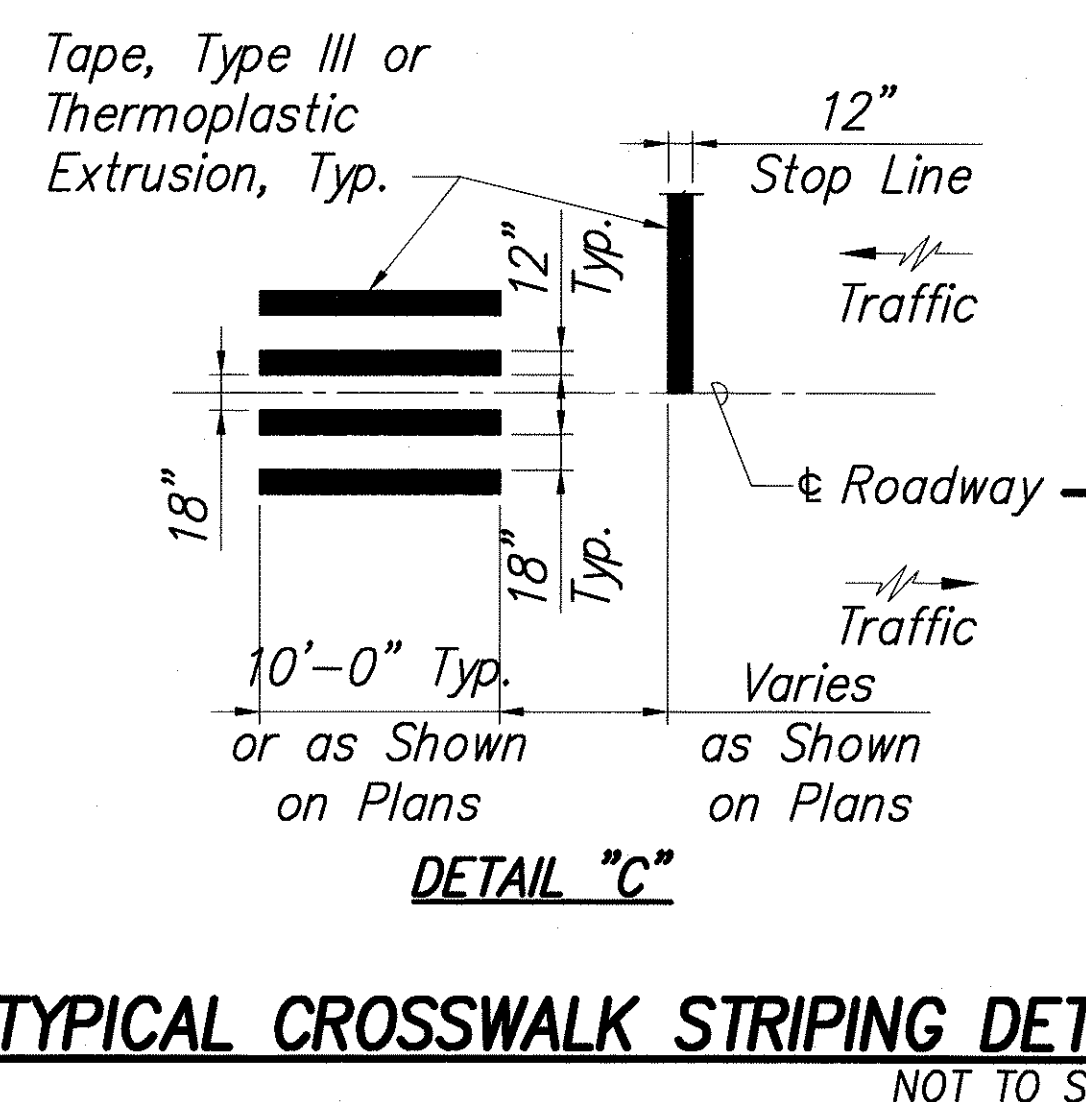
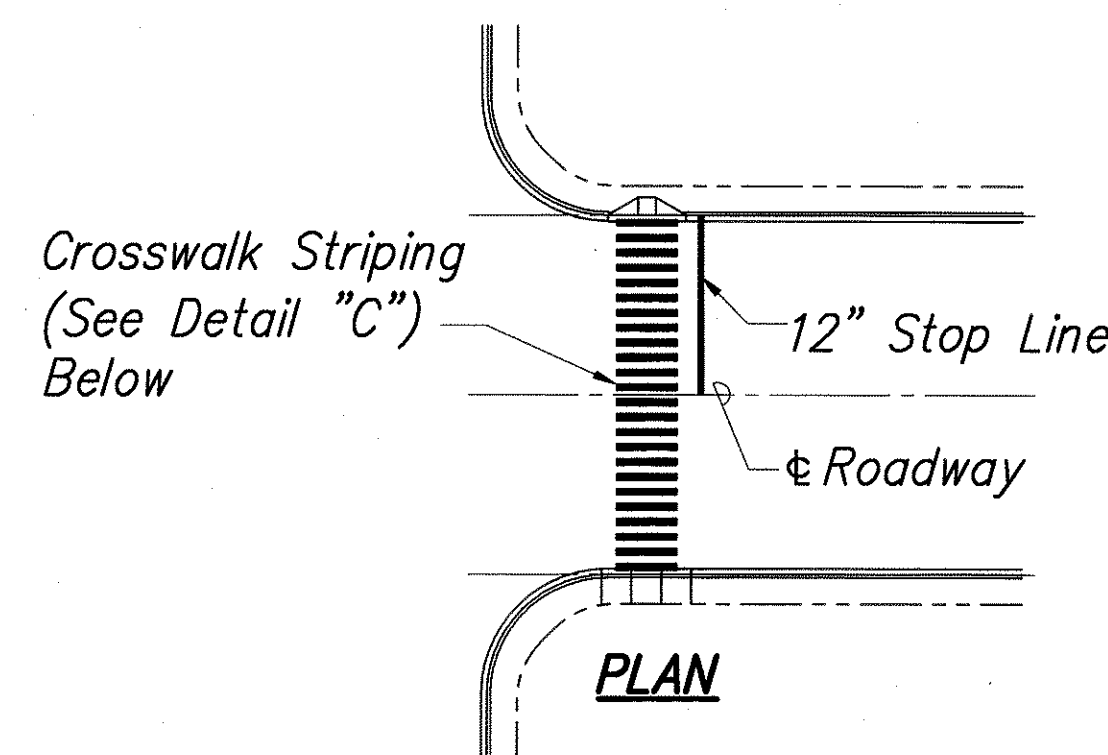
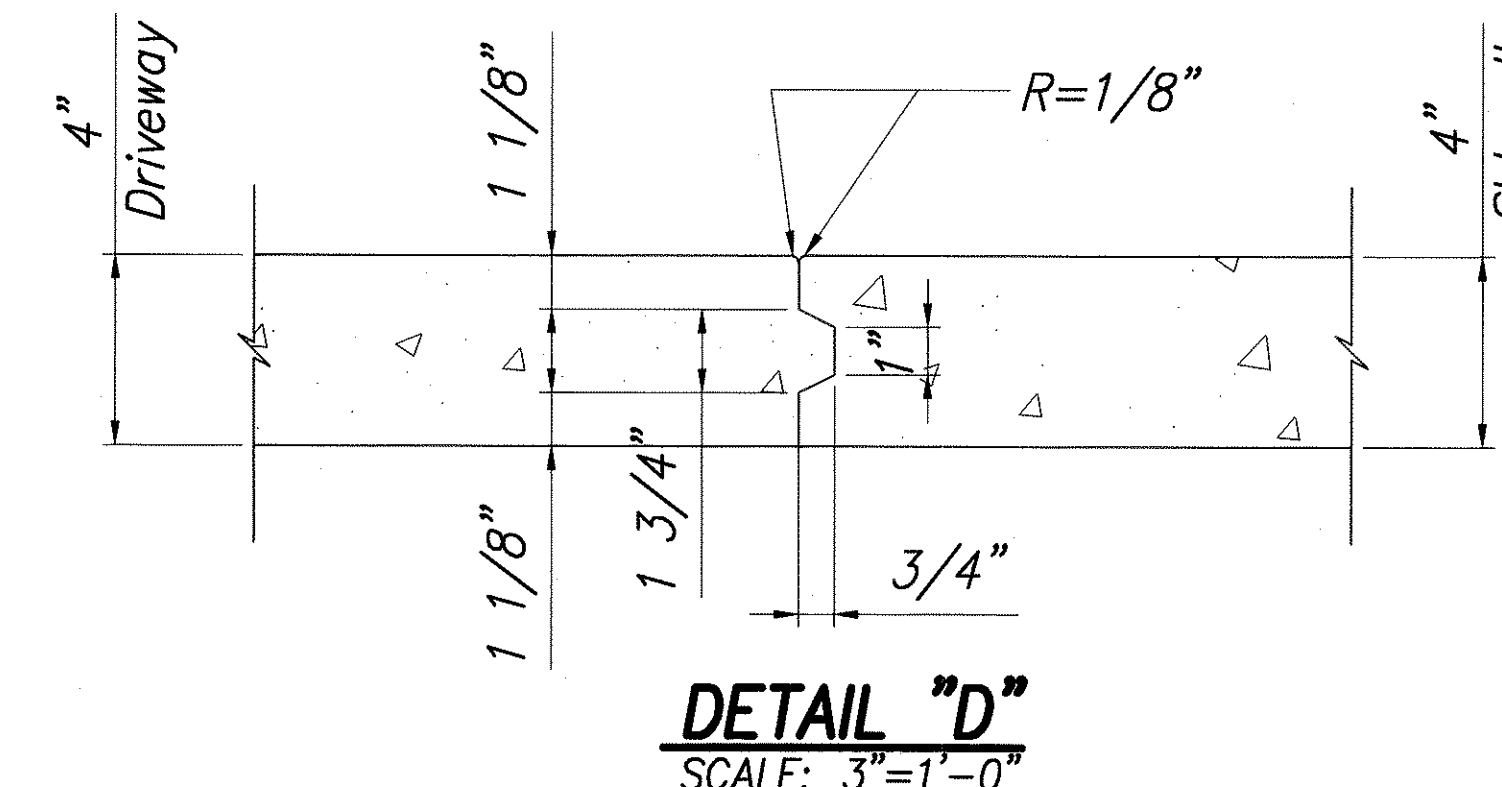
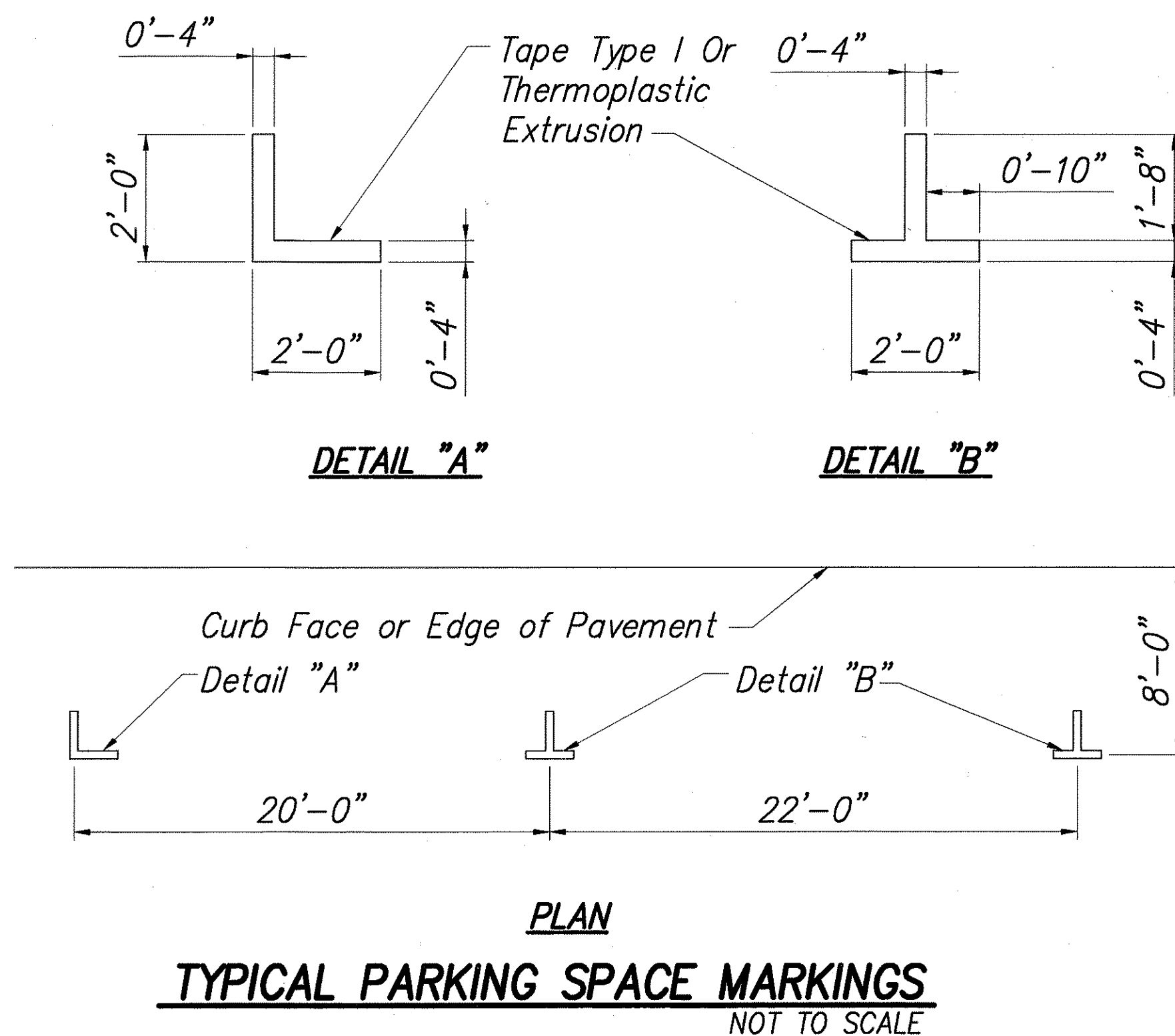
reduced plan
(half size)

0 1 2 3

3 inches on original plan

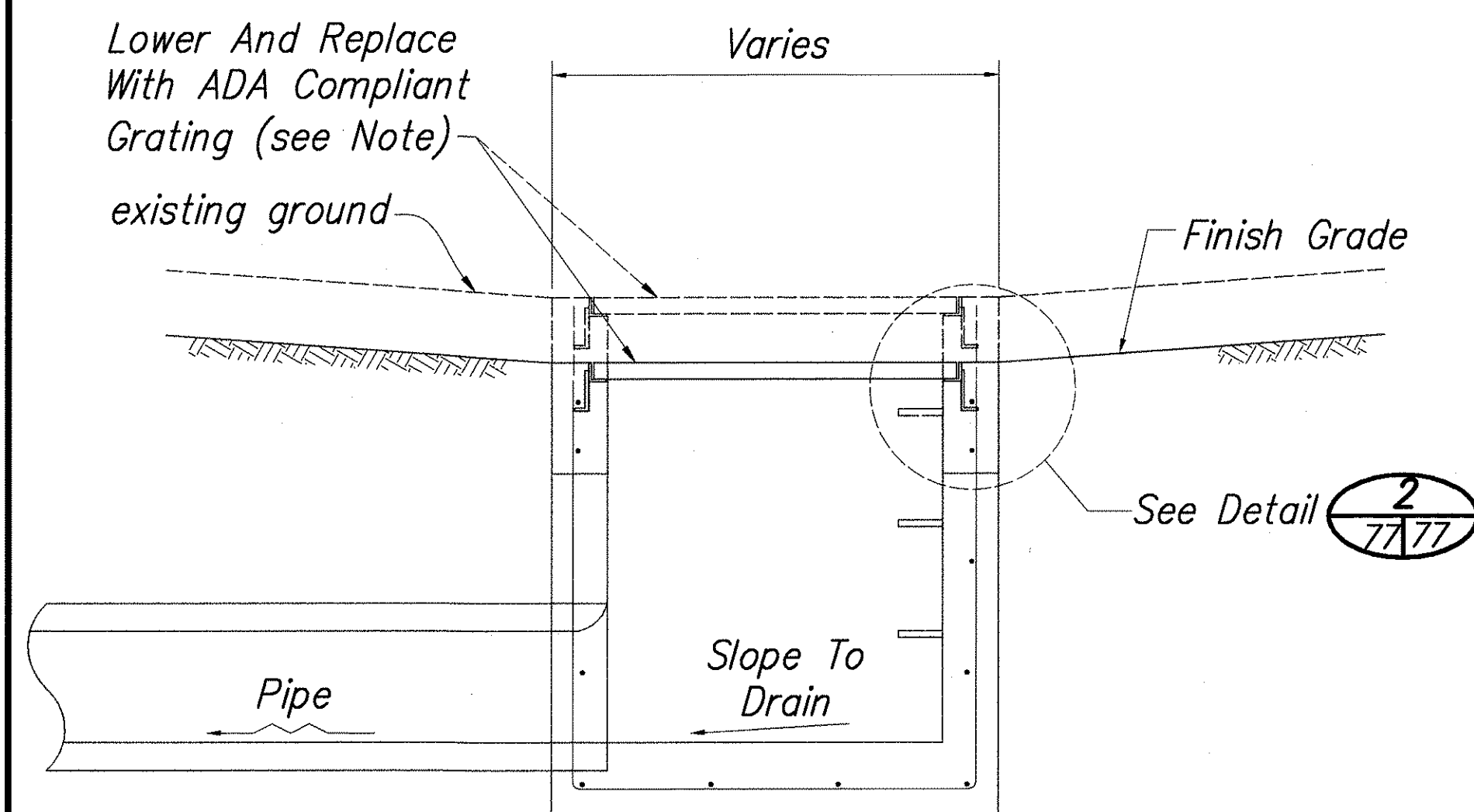
PEDESTRIAN ACCESSIBILITY ROUTE
IMPROVEMENTS – HONOKAA, HAWAII, AND KAPAAU
Federal Aid Project No. CMAQ-0100(62)
Scale: AS NOTED Date: SEPT. 2004

SHEET No. 76 OF 86 SHEETS

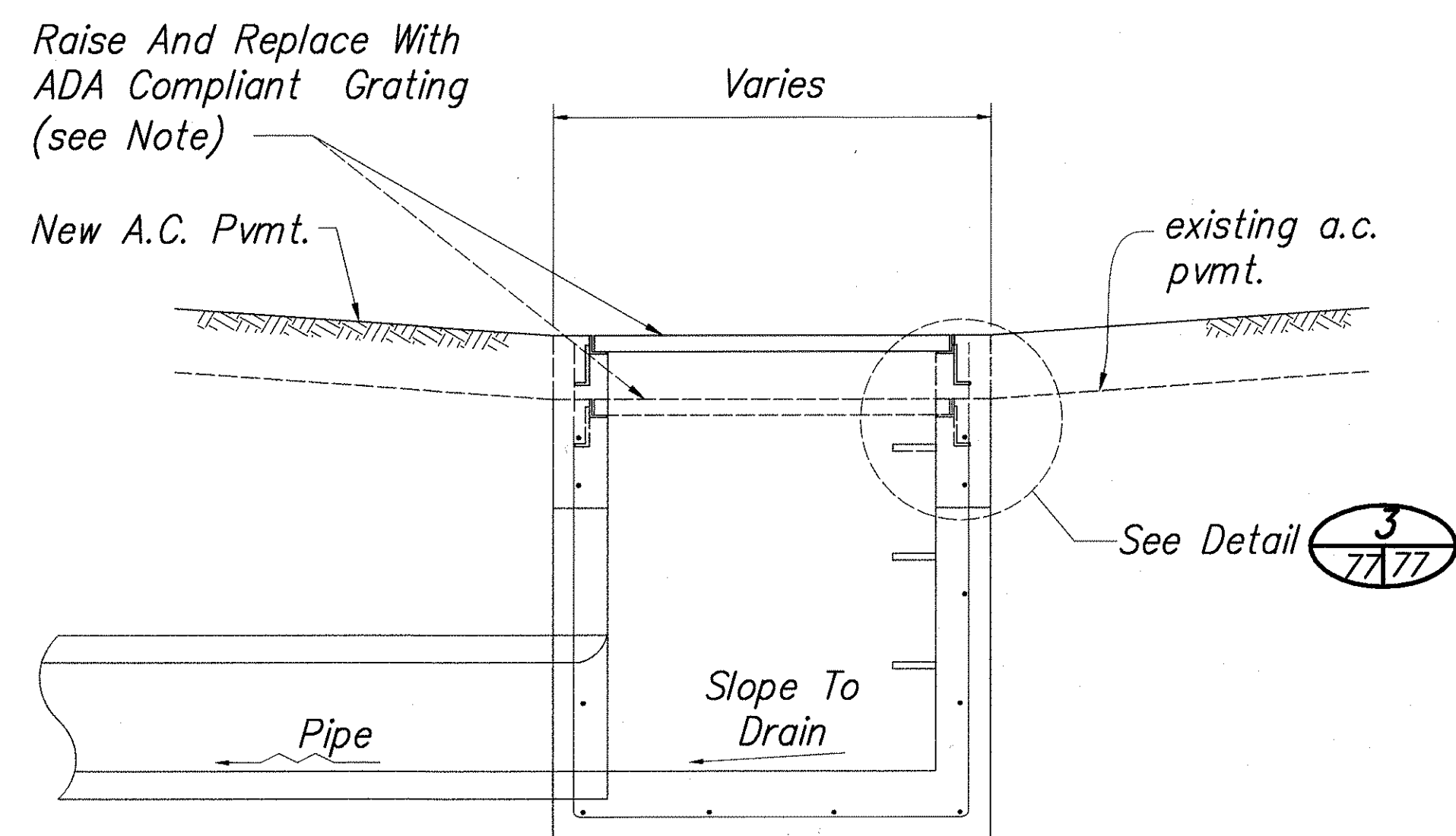


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SIGNATURE EXPIRATION DATE
OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	77	86

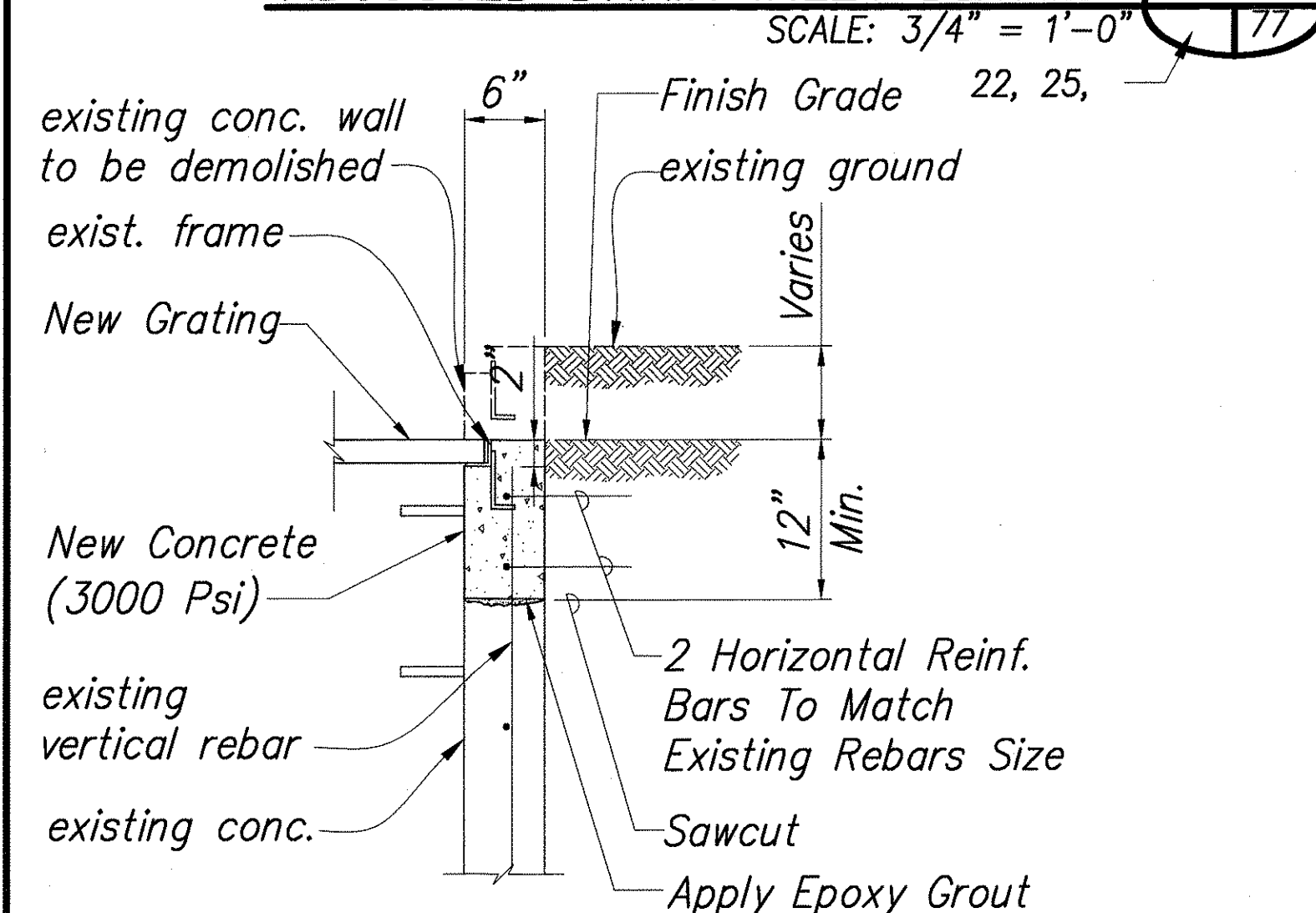


LOWER TOP OF EXISTING DRAIN INLET DETAIL

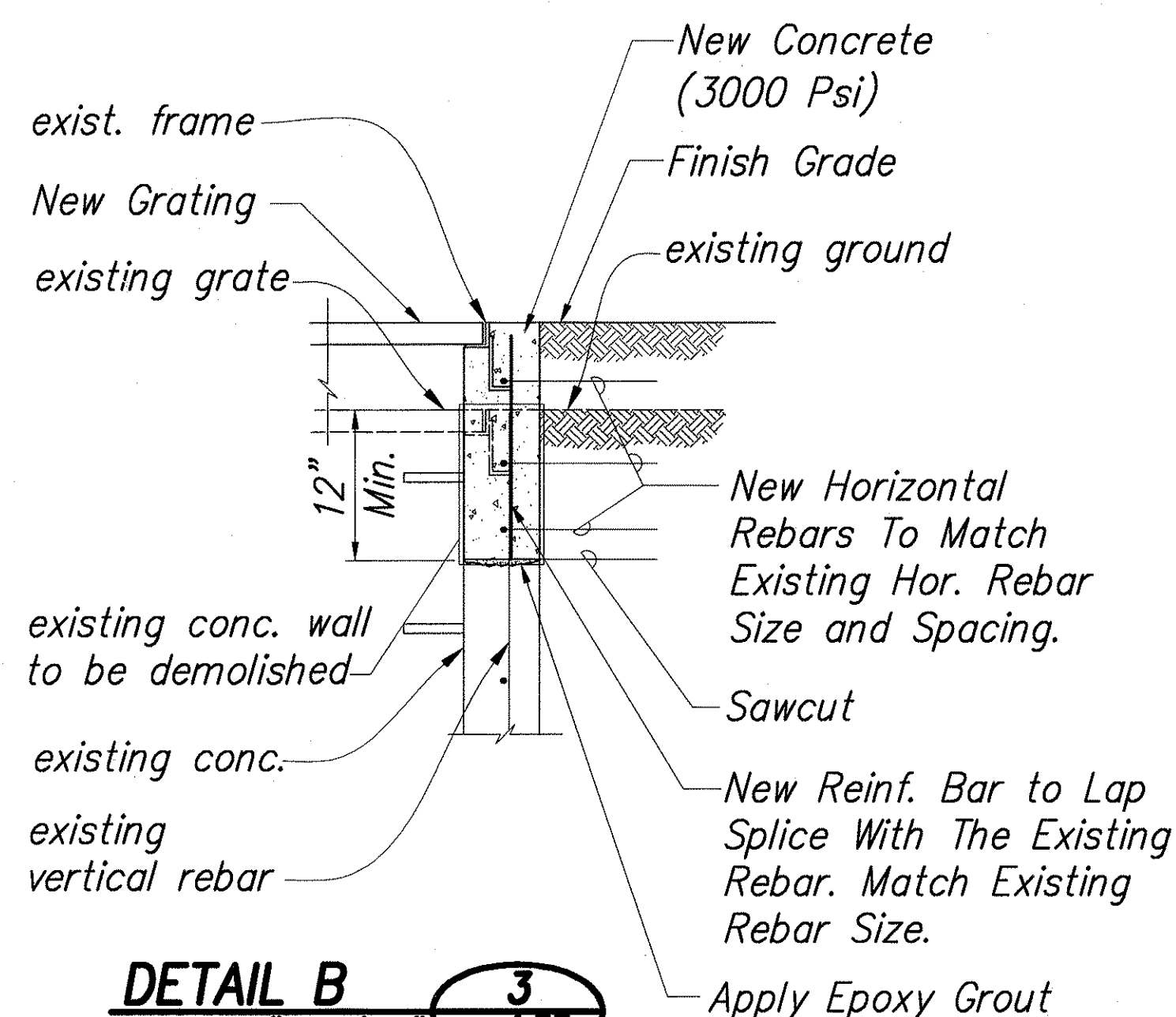


RAISE TOP OF EXISTING DRAIN INLET DETAIL

ADJUSTED DRAIN INLET DETAIL



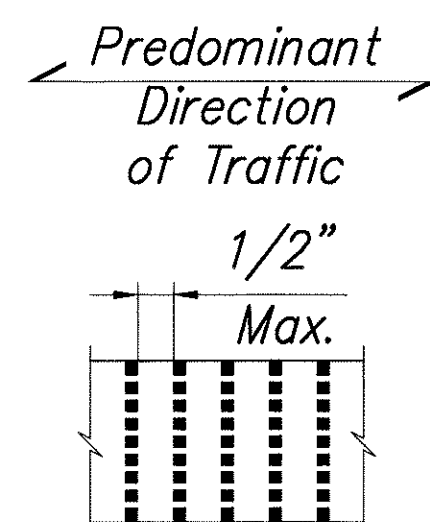
DETAIL A
SCALE: 1" = 1'-0"



DETAIL B
SCALE: 1" = 1'-0"

Notes:

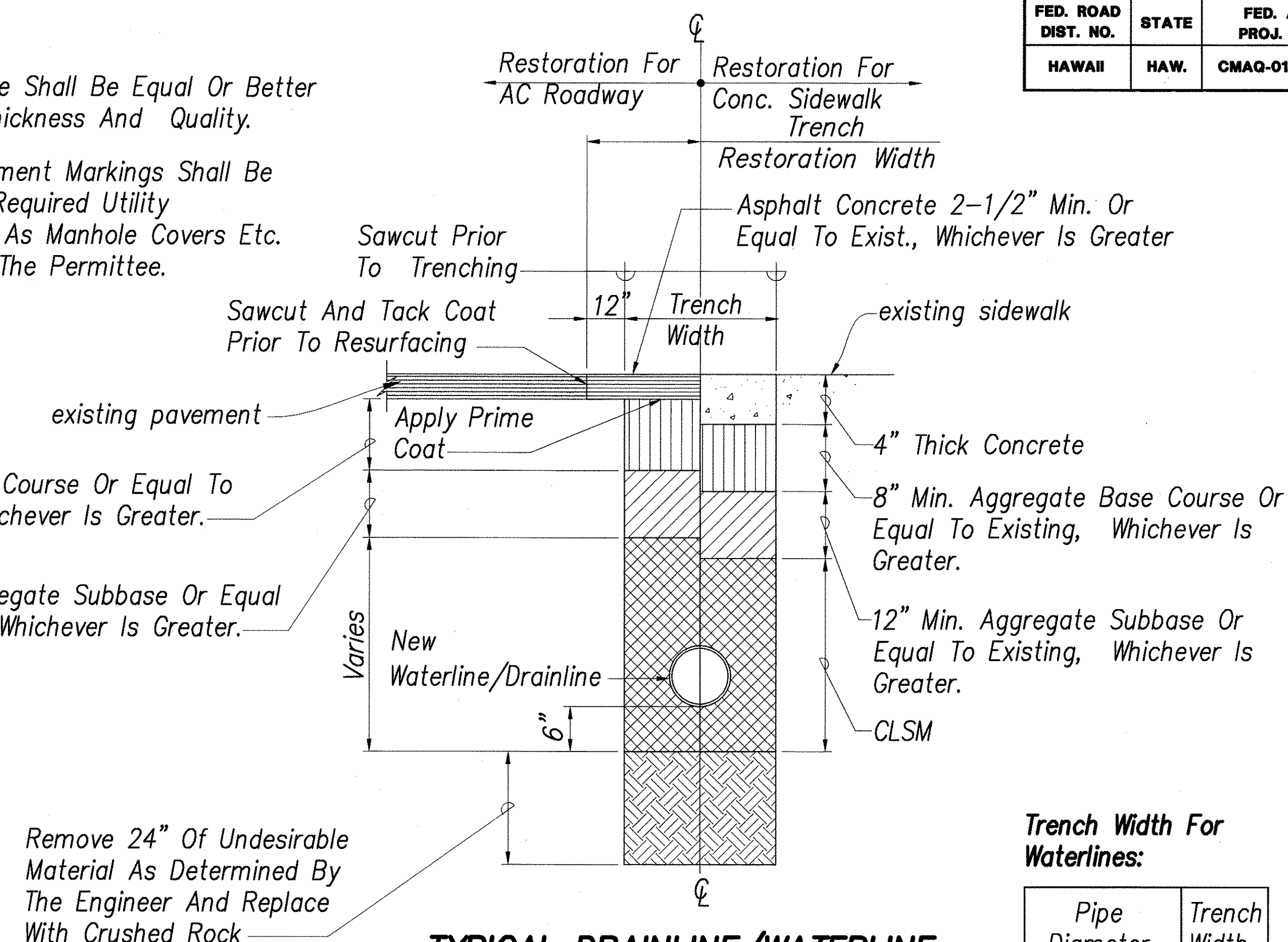
1. Pavement Structure Shall Be Equal Or Better Than Existing In Thickness And Quality.
2. All Disturbed Pavement Markings Shall Be Replaced And All Required Utility Adjustments Such As Manhole Covers Etc. Shall Be Done By The Permittee.



GRATINGS
NOT TO SCALE

Grate Note:

ADA compliant grates shall have openings no greater than 1/2". Grate openings shall run perpendicular to direction of travel.



TYPICAL DRAINLINE/WATERLINE TRENCH RESTORATION DETAIL

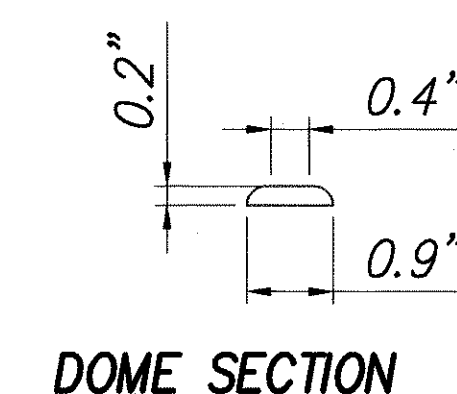
NOT TO SCALE

Trench Width For Waterlines:

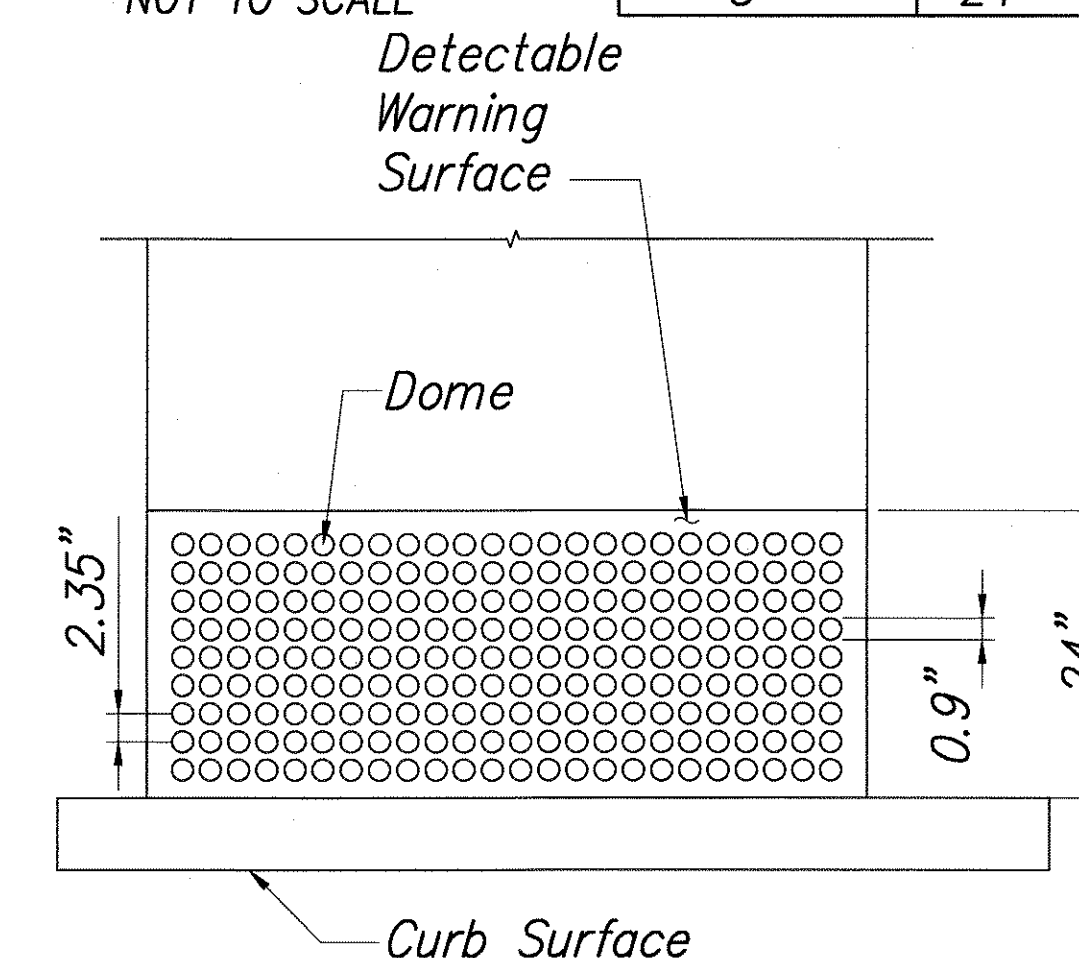
Pipe Diameter	Trench Width
6"	24"
8"	24"

Trench Width For Drain Pipes:

Drain Pipe Size	Trench Width
24"	48"
42"	72"



DOME SECTION



DETECTABLE WARNING DETAIL

SCALE: 3/4" = 1'-0"

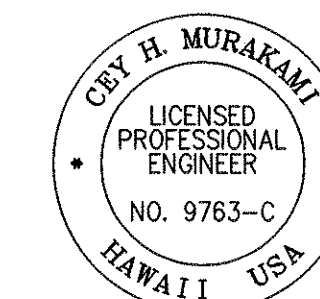
ORIGINAL PLAN	DATE
DESIGNED BY	9/2004
DRAWN BY	9/2004
CHECKED BY	9/2004
NOTED BY	9/2004
NO.	

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04/30/06
EXPIRATION DATE OF THE LICENSE



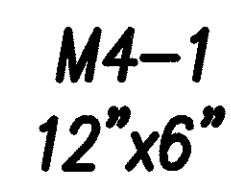
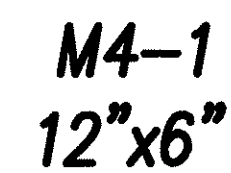
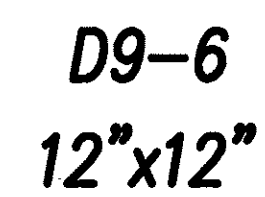
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISC. DETAILS - 5

PEDESTRIAN ACCESSIBILITY ROUTE
IMPROVEMENTS - HONOKAA, HAWAII, AND KAPAAU
Federal Aid Project No. CMAQ-0100(62)
Scale: AS NOTED Date: SEPT. 2004

SHEET No. 77 OF 86 SHEETS

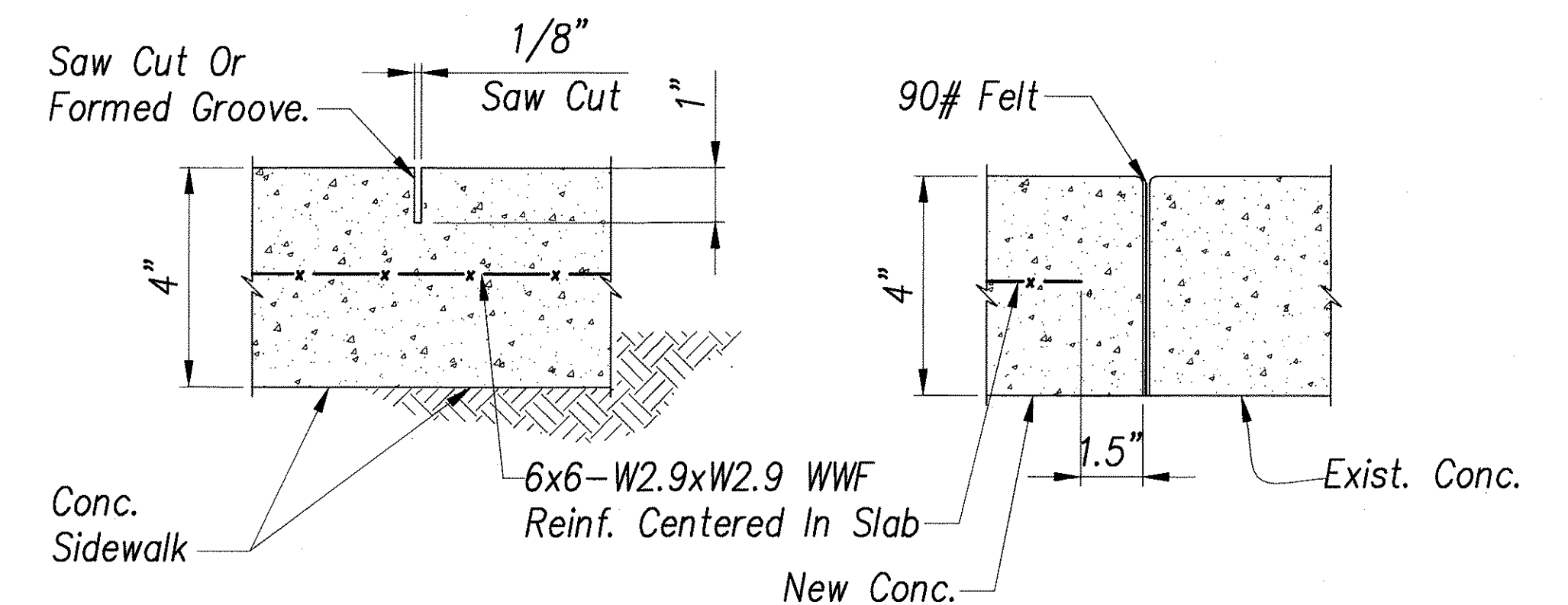
\\2000\2000_070.000 PROJECT POINT - PEDESTRIAN ACCESSIBILITY\G DRAWINGS\DETAILS\C-DT0078 MISC DETAIL S06.DWG 08/06/04 17:11 tkc



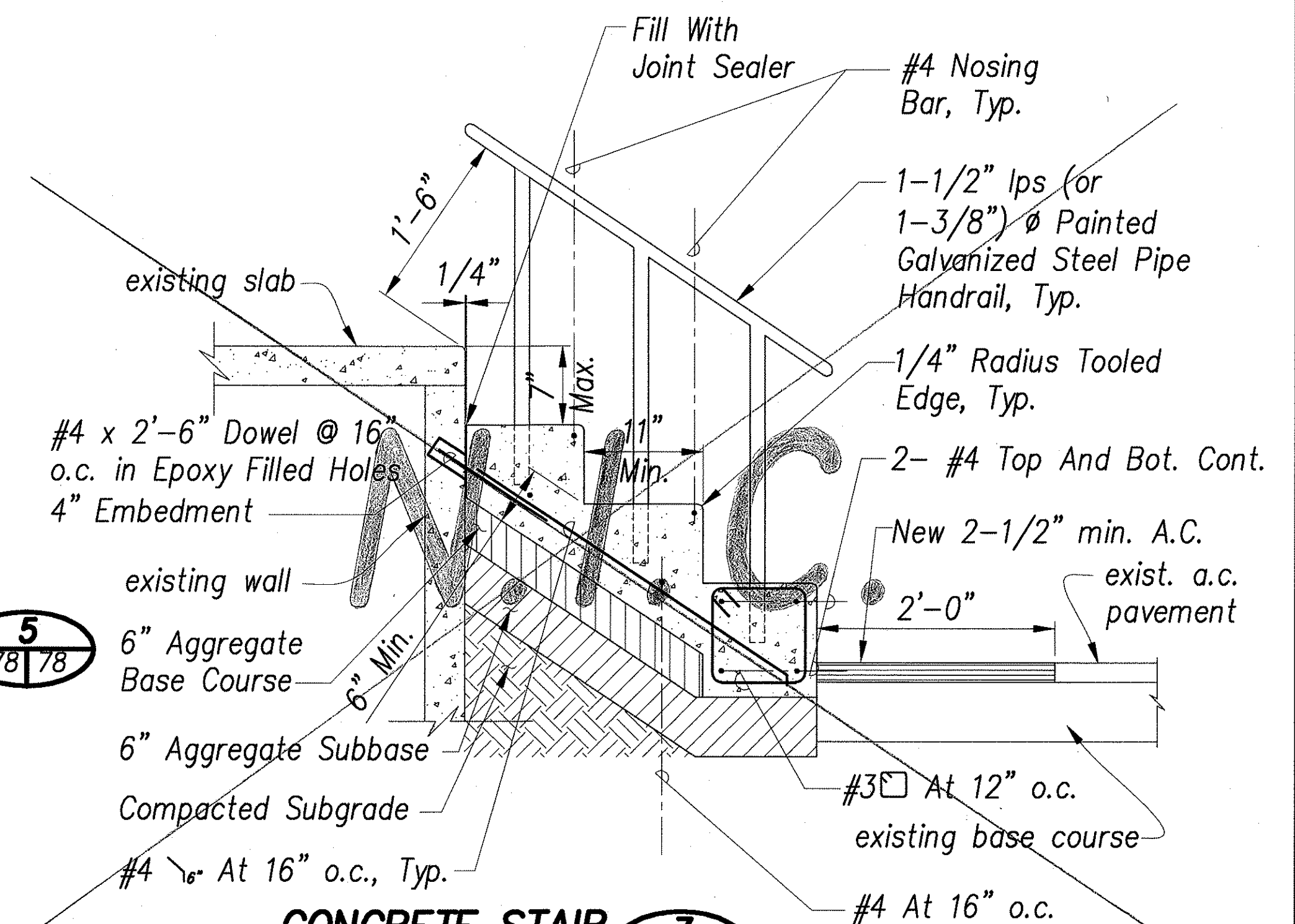
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY _____ DL _____	" " _____ 9 / 2004
	TRACED BY _____ DL _____	" " _____ 9 / 2004
	DESIGNED BY _____ CM _____	" " _____ 9 / 2004
	QUANTITIES BY _____ TC _____	" " _____ 9 / 2004
	CHECKED BY _____ ES _____	" " _____ 9 / 2004



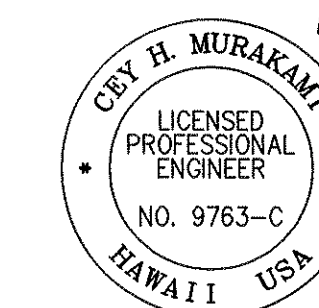
BOLLARD DETAIL
NOT TO SCALE
6
78
24, 58



TYPICAL JOINT DETAILS
NOT TO SCALE
69, 74, 75



CONCRETE STAIR 7
NOT TO SCALE 58 78



Cey H Munfami 04/30/06
SIGNATURE EXPIRATION DATE

"AS-BUILT"

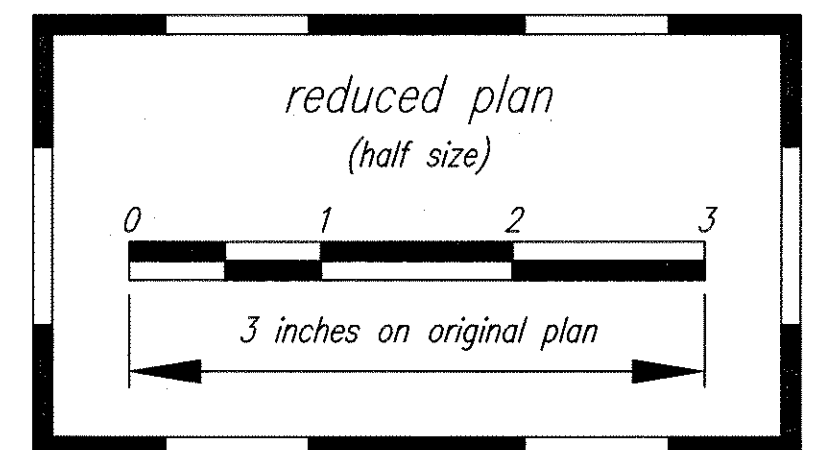
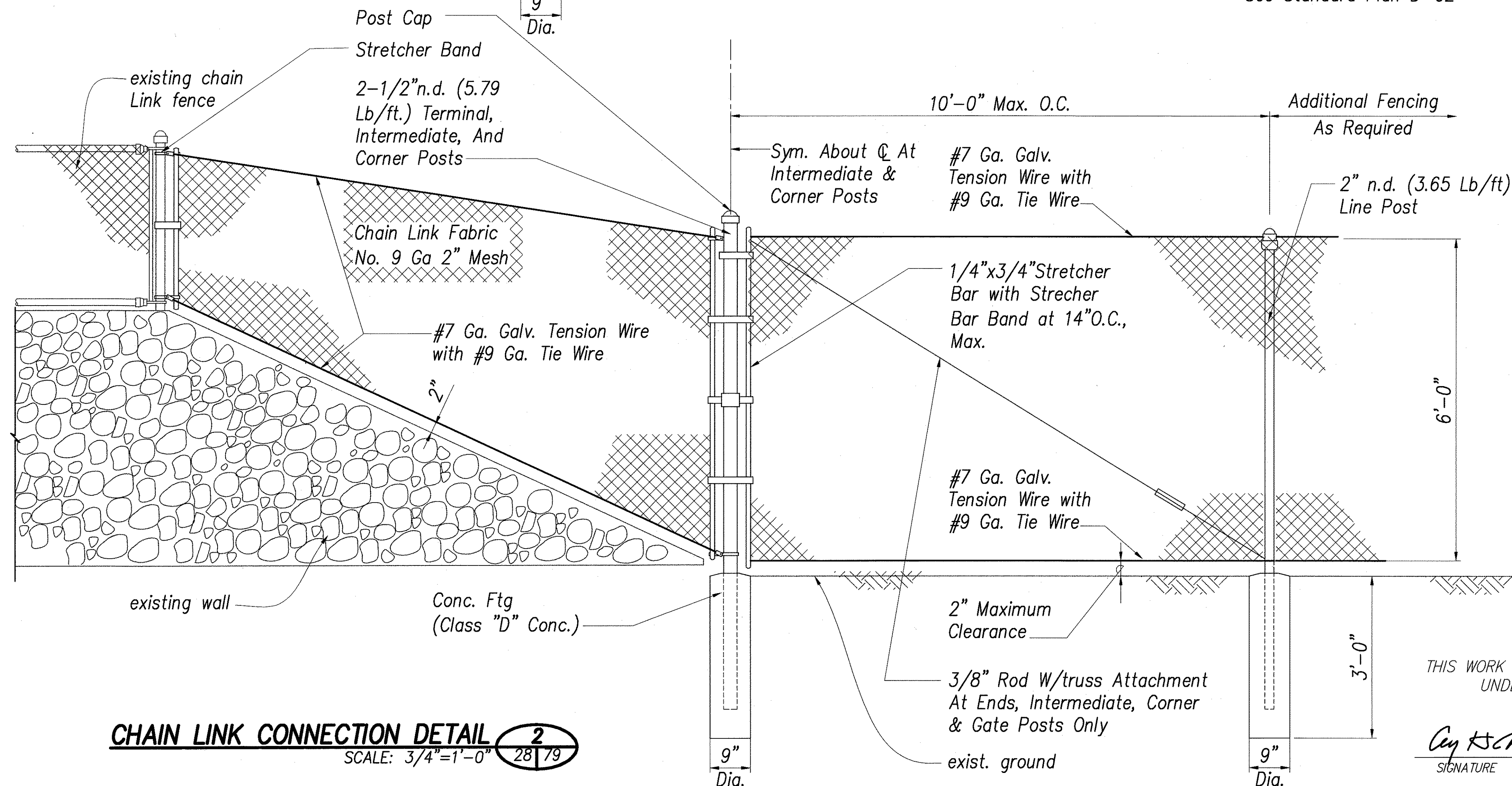
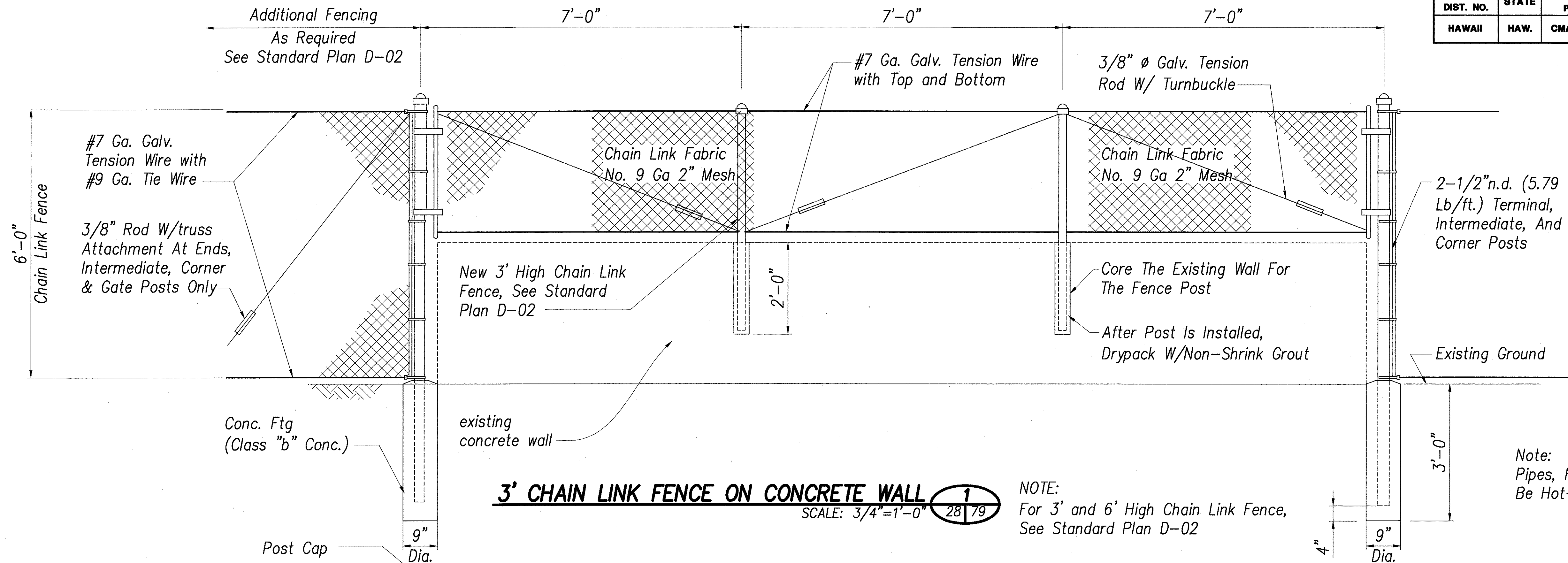
MISC. DETAILS - 6

PEDESTRIAN ACCESSIBILITY ROUTE
IMPROVEMENTS - HONOKAA, HAWI, AND KAPAAU
Federal Aid Project No. CMAQ-0100(62)

Scale: AS NOTED Date: SEPT. 2004

SHEET No. 78 OF 86 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	79	86



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SIGNATURE

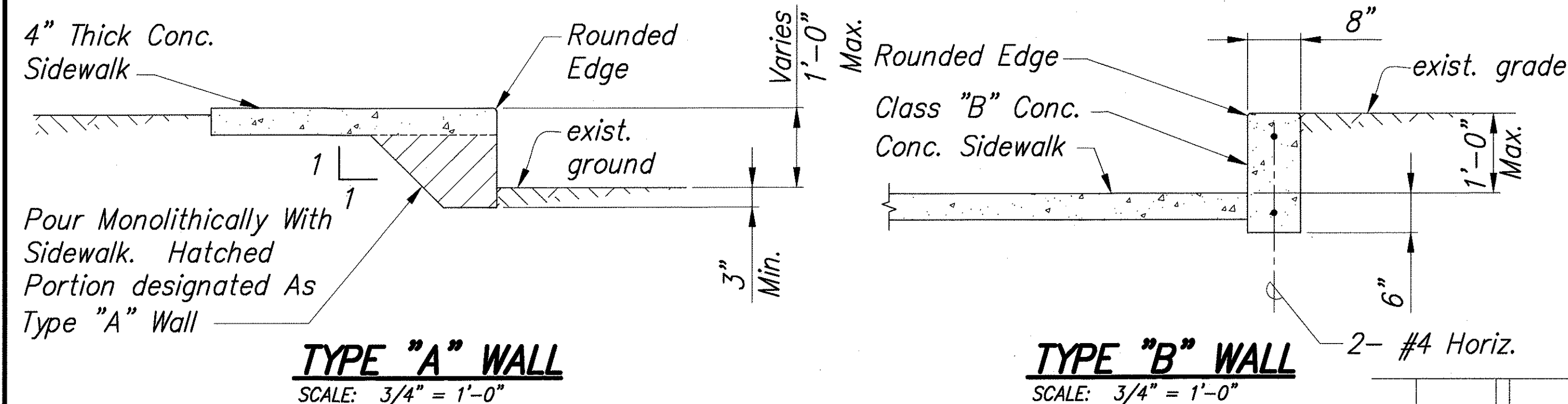
04/30/06
EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISC. DETAILS - 7

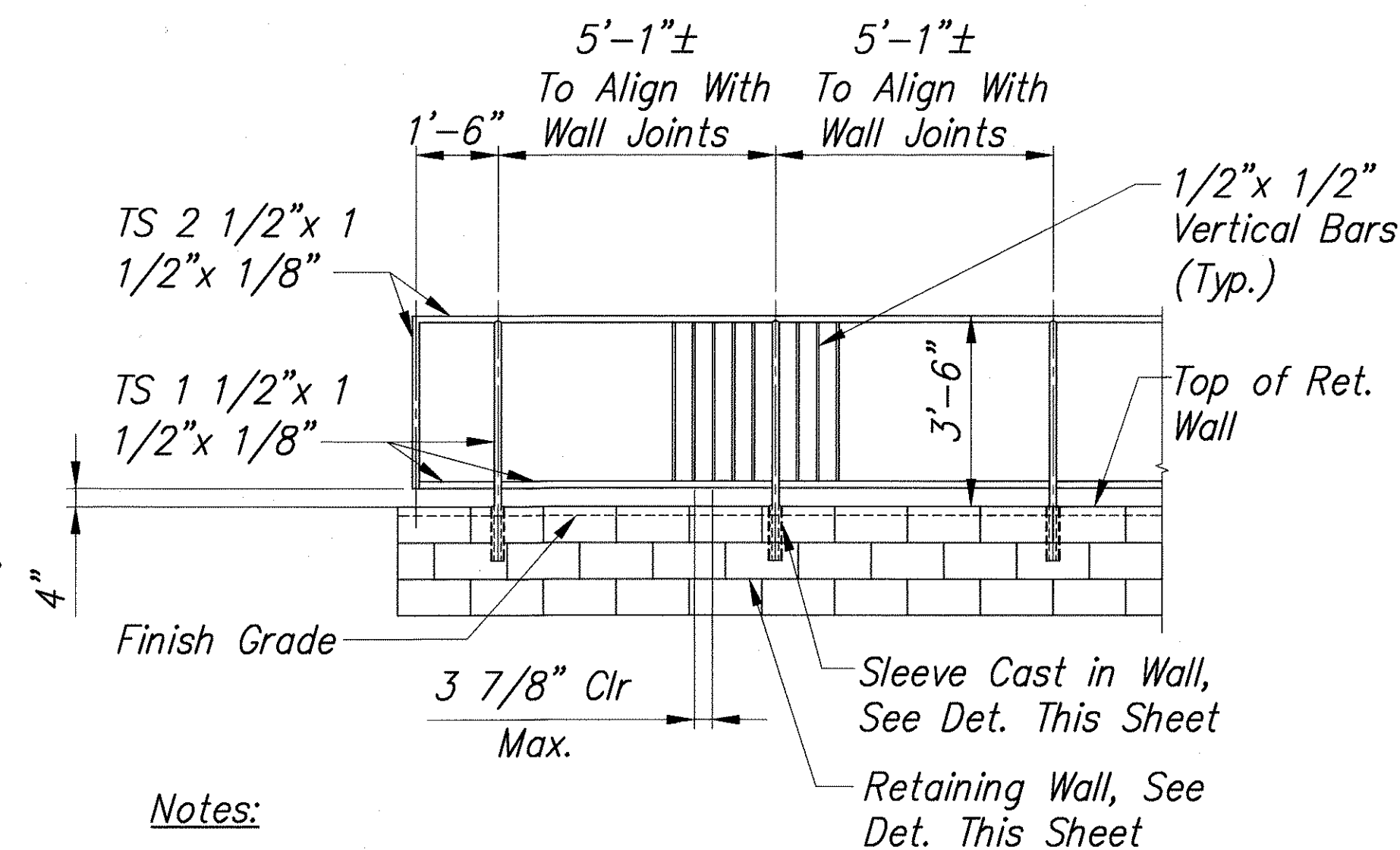
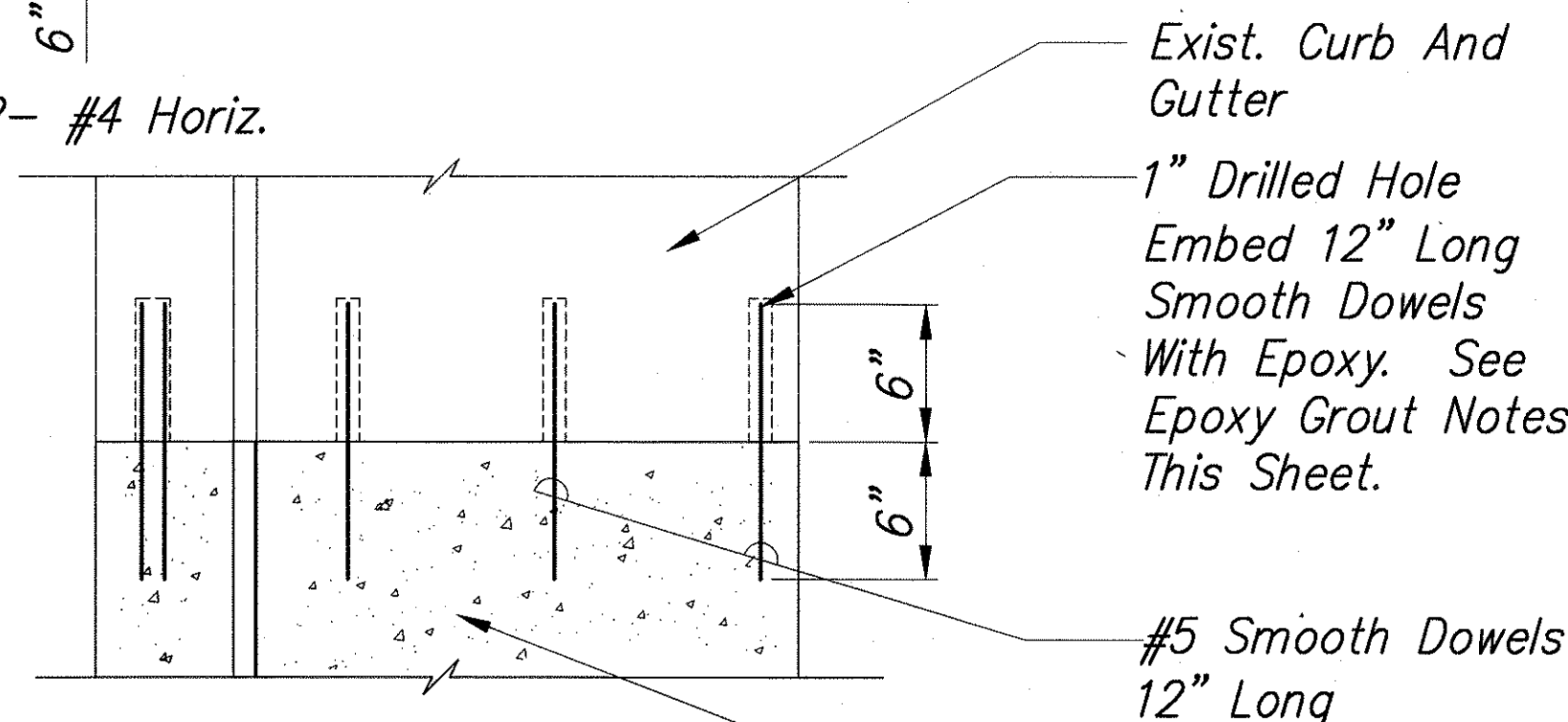
PEDESTRIAN ACCESSIBILITY ROUTE
IMPROVEMENTS - HONOKAA, HAWAII, AND KAPAAU
Federal Aid Project No. CMAQ-0100(62)
Scale: AS NOTED Date: SEPT. 2004

SHEET No. 79 OF 86 SHEETS

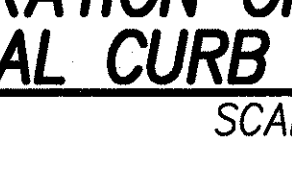
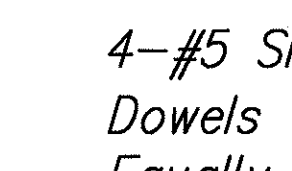
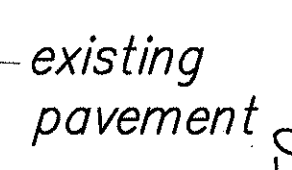
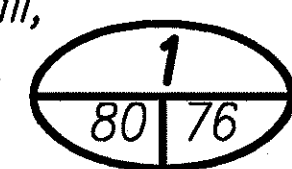
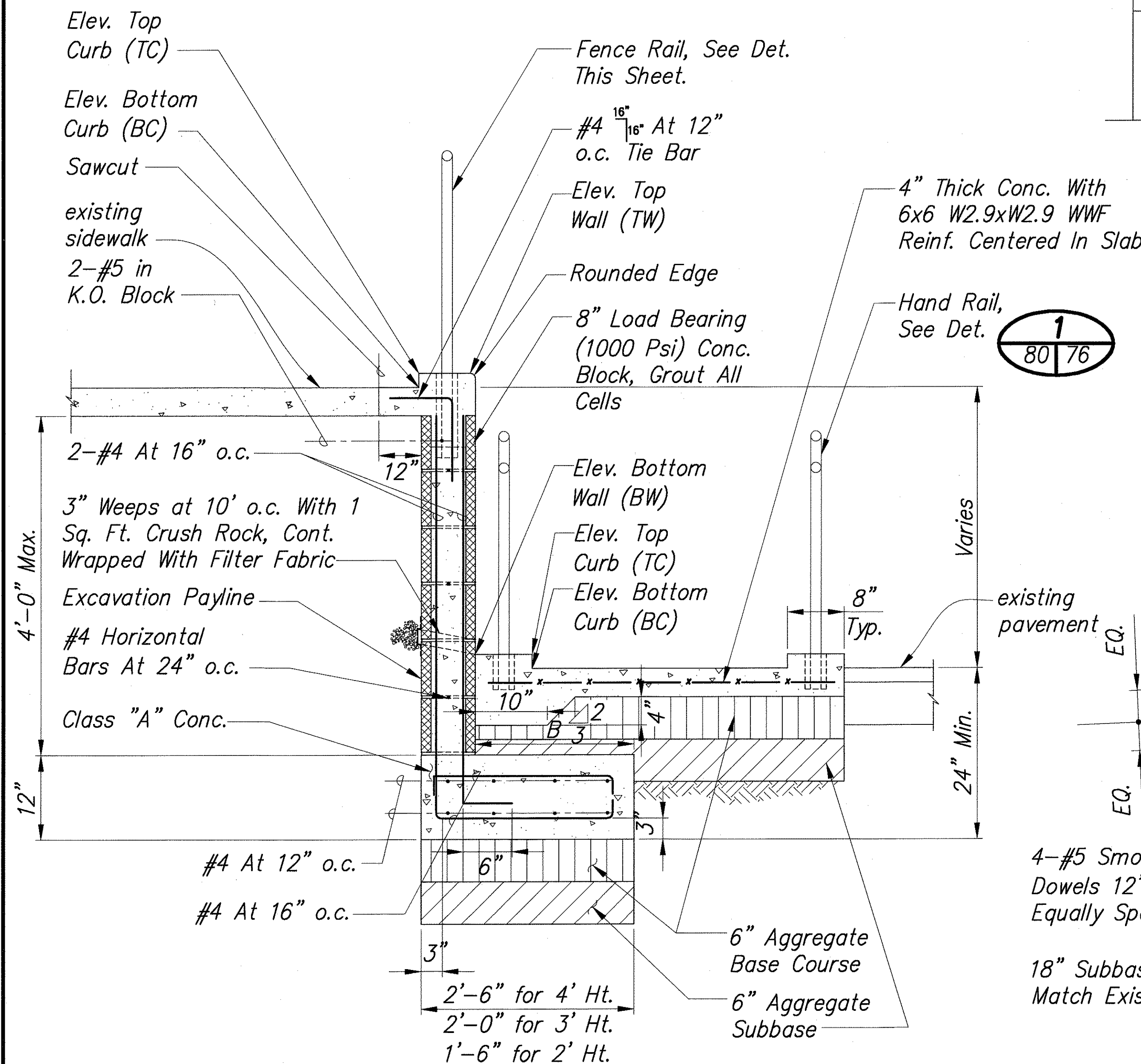
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	80	86



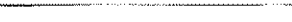
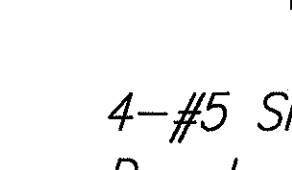
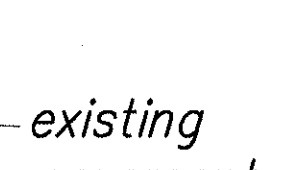
GRADE ADJUSTMENT WALL



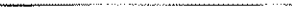
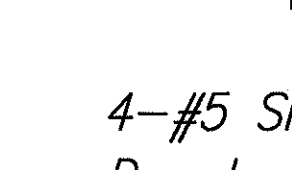
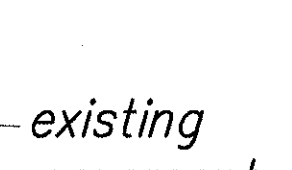
- Notes:**
- All Joints Fully Welded And Ground Smooth.
 - Hot Dip Galvanize After Fabrication. Provide 1/2" Diameter Drain Holes In Underside Of Members As Required For Galvanizing.
 - Repair Field Welds Per State Of Hawaii Standard Specifications For Road, Bridge, And Public Works Constructions Section 501.03 G(2) "Repairing Damaged Zinc-Coated Surfaces".
 - Prime And Paint All Exposed Portion Of Railing.



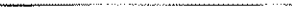
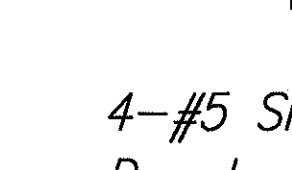
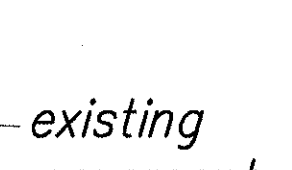
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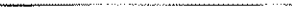
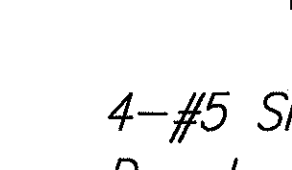
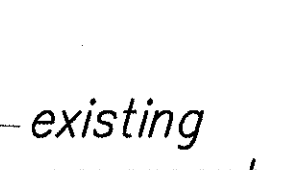
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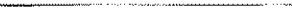
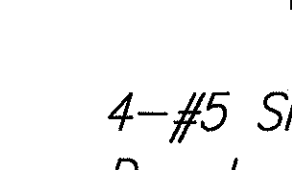
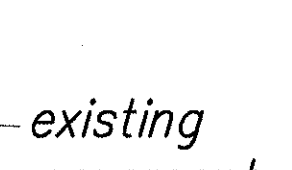
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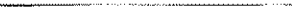
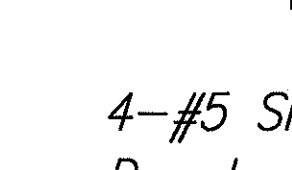
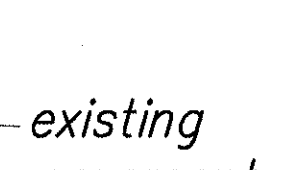
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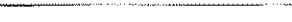
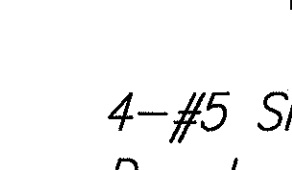
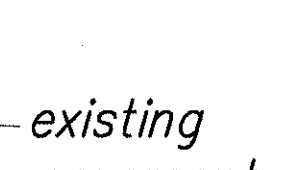
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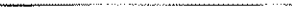
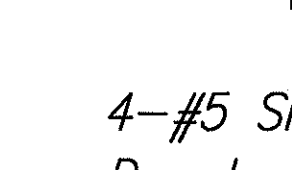
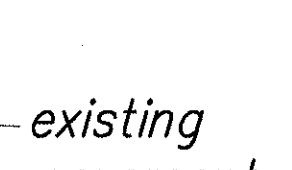
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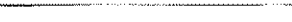
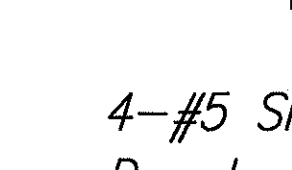
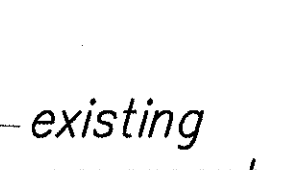
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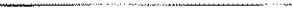
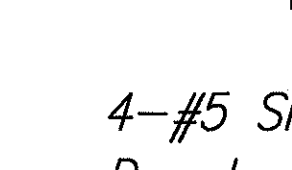
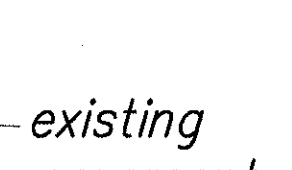
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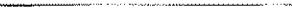
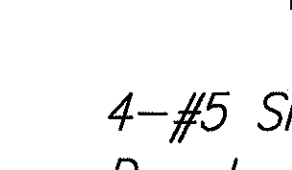
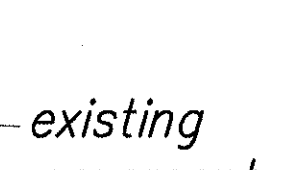
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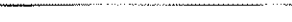
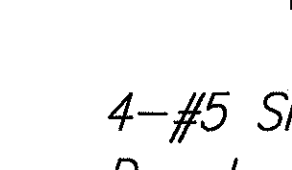
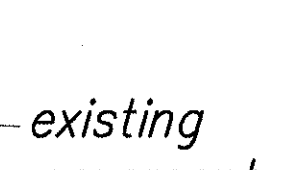
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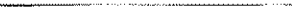
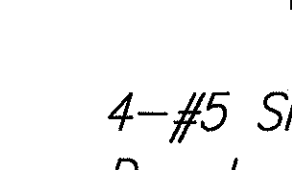
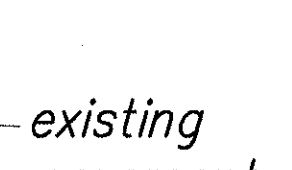
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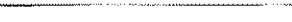
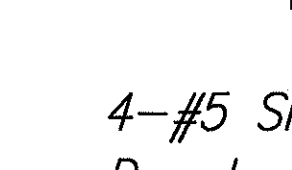
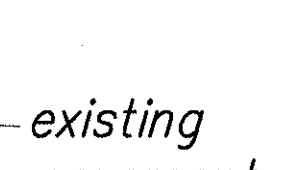
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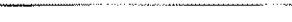
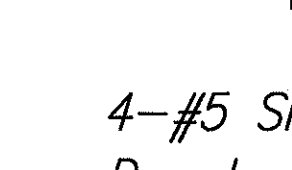
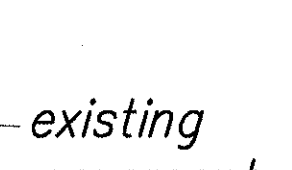
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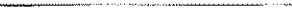
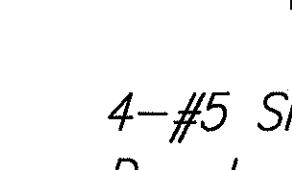
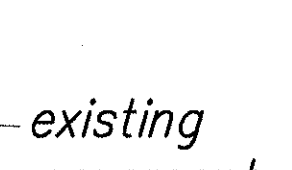
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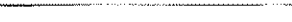
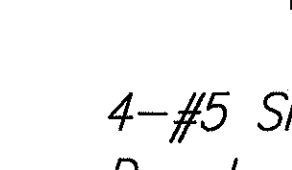
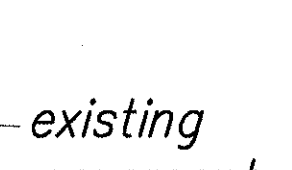
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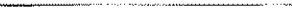
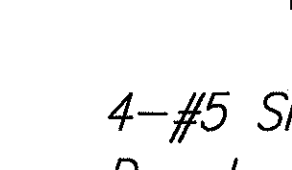
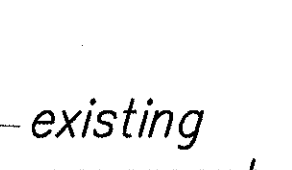
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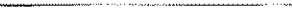
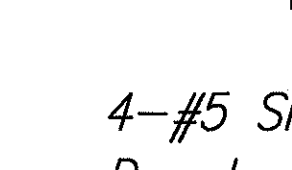
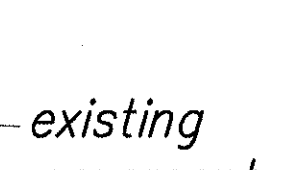
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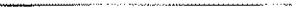
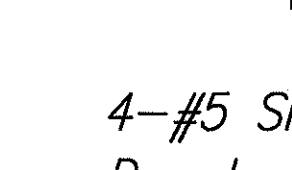
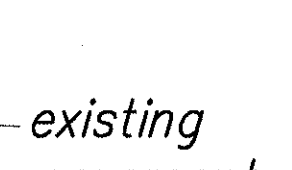
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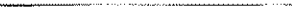
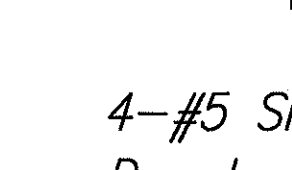
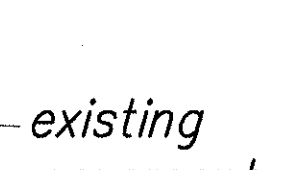
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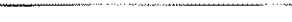
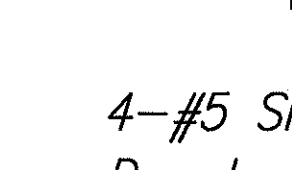
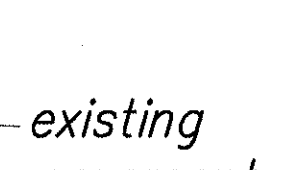
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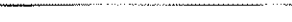
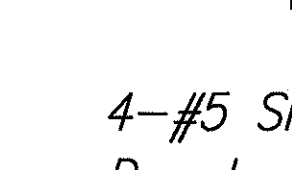
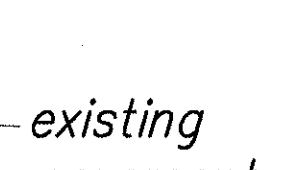
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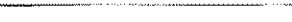
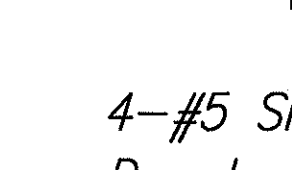
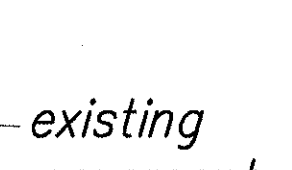
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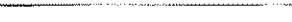
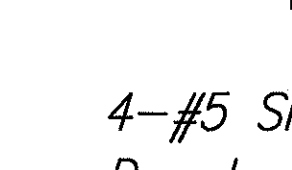
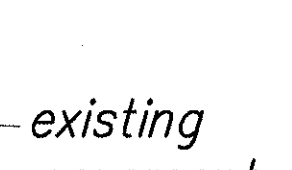
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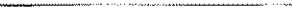
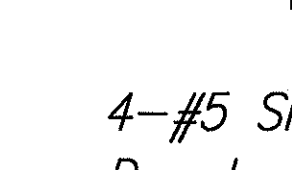
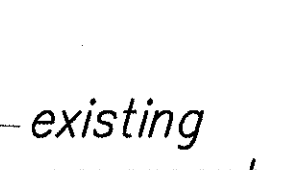
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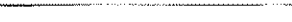
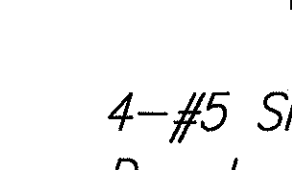
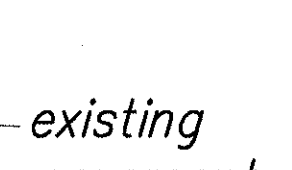
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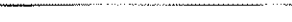
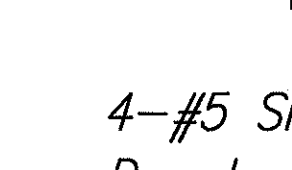
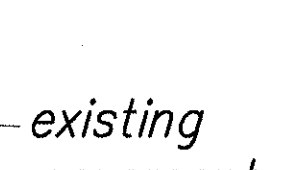
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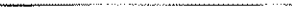
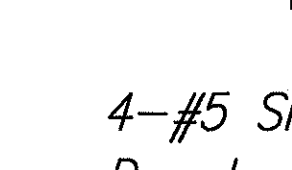
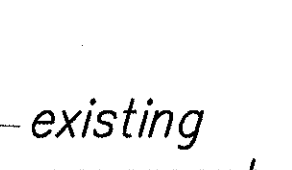
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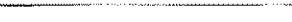
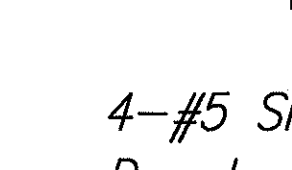
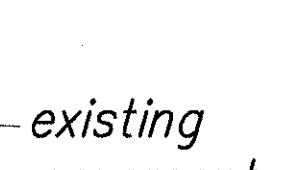
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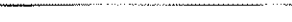
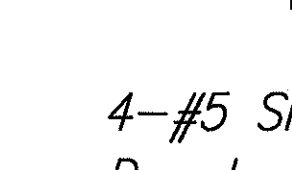
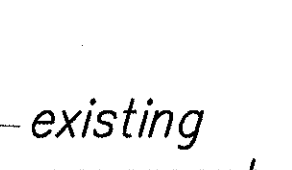
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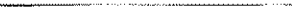
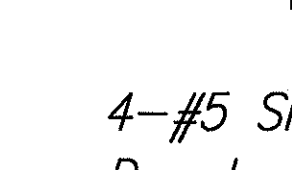
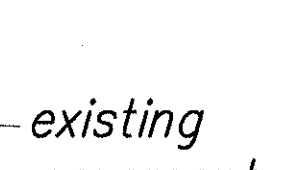
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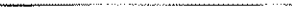
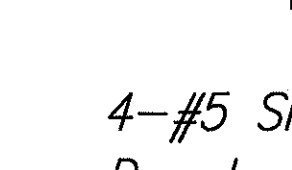
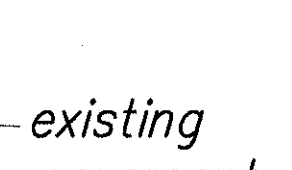
CONC. CURB PLAN VIEW



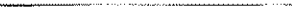
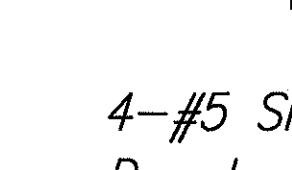
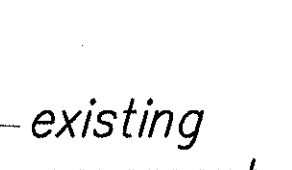
CONC. CURB PLAN VIEW



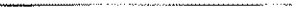
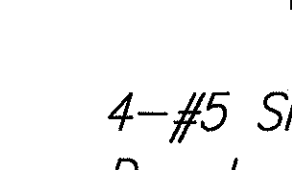
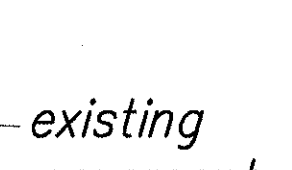
CONC. CURB PLAN VIEW



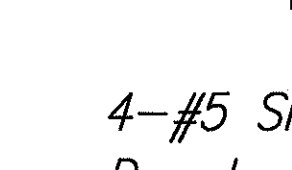
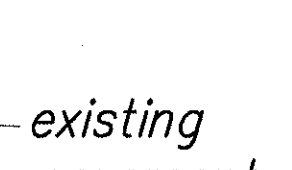
CONC. CURB PLAN VIEW



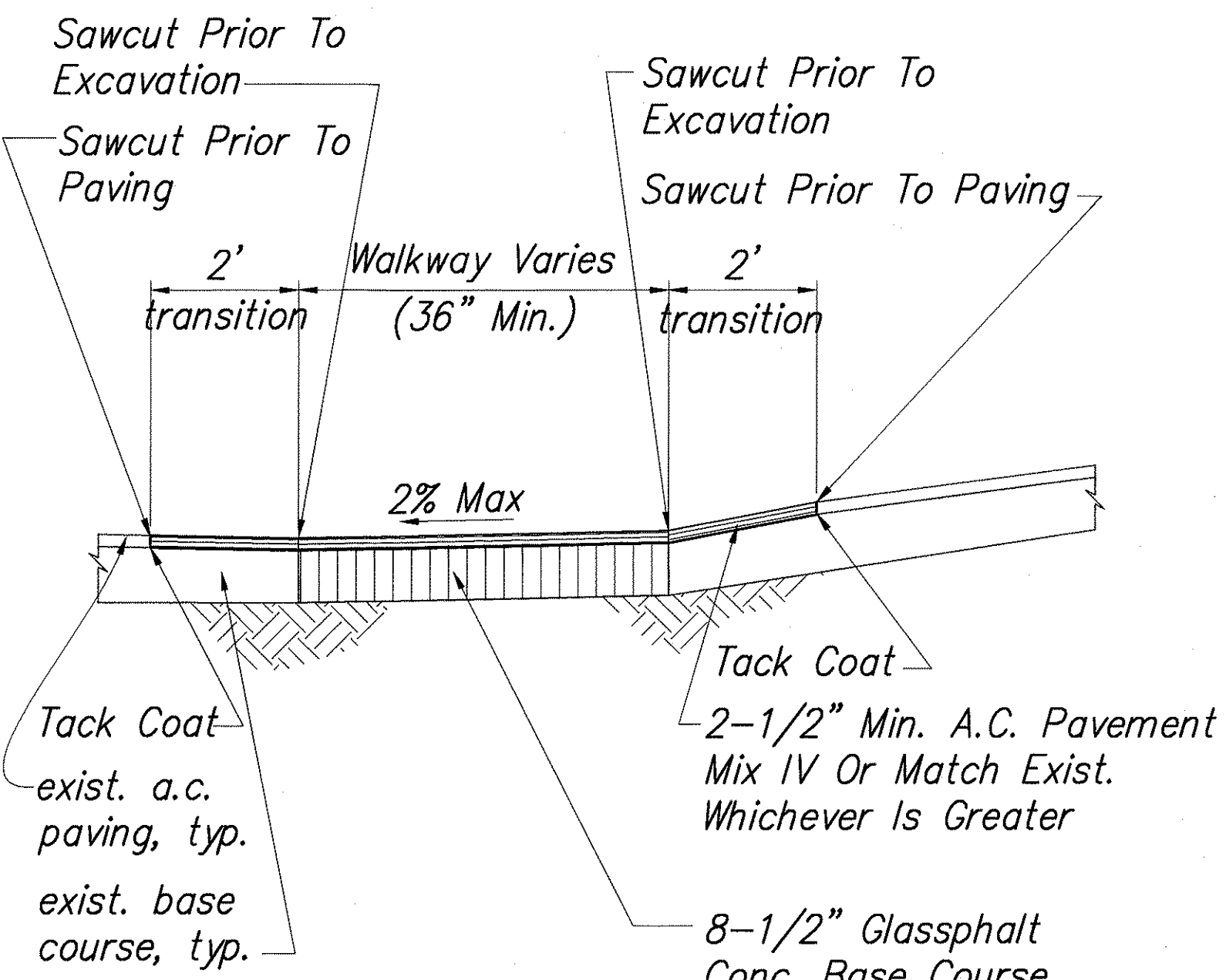
CONC. CURB PLAN VIEW



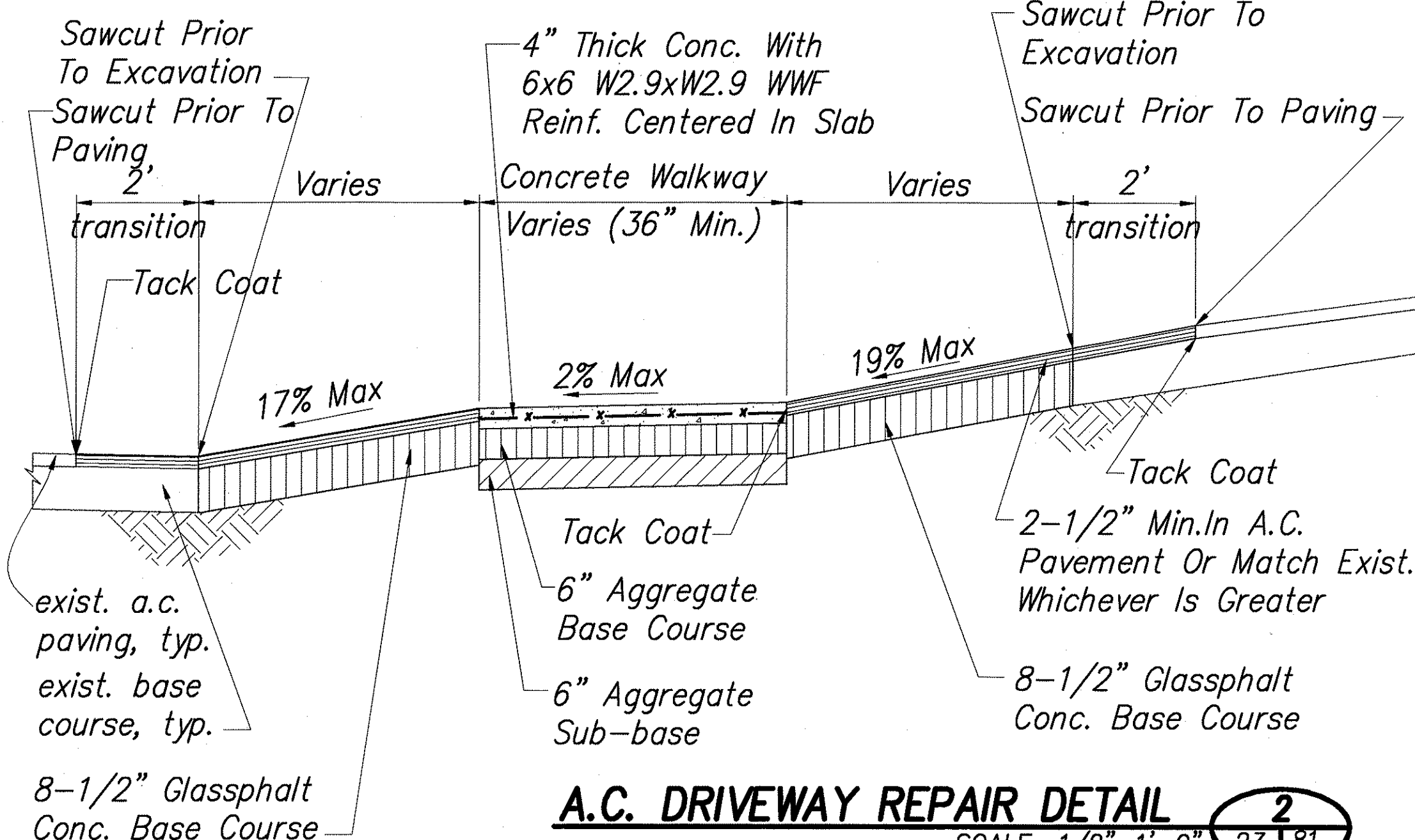
CONC. CURB PLAN VIEW



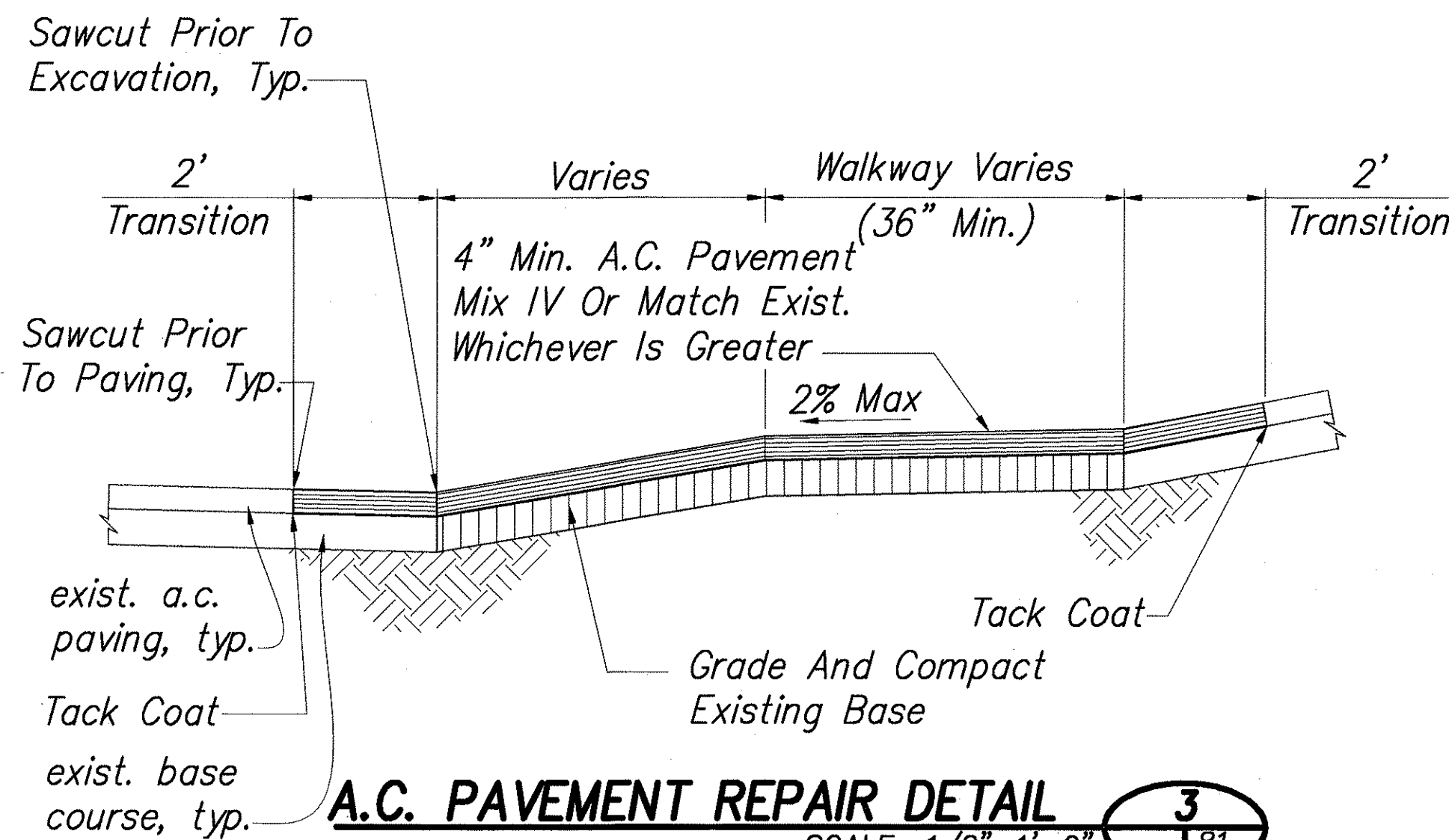
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	81	86



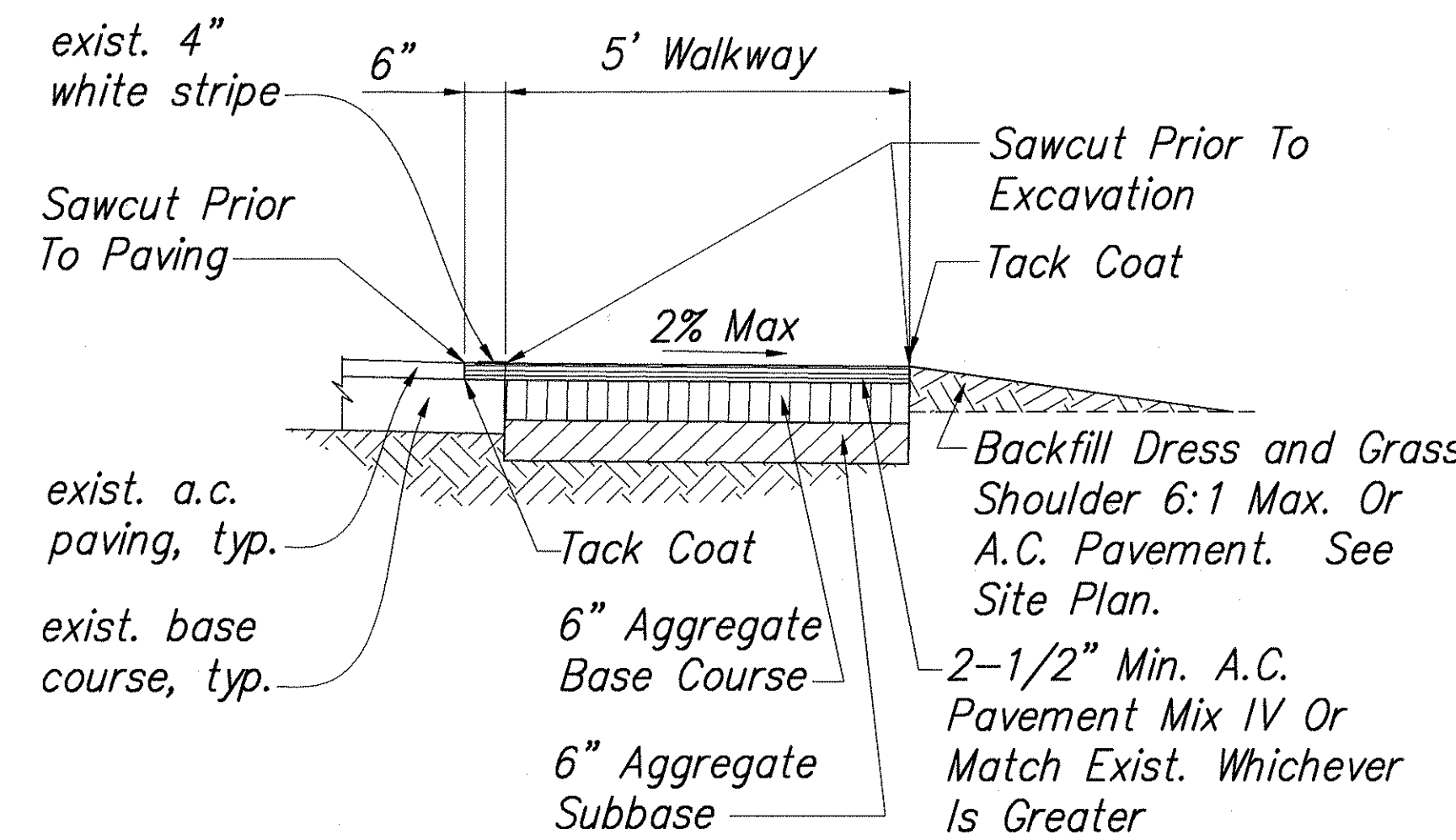
A.C. PAVEMENT REPAIR DETAIL 1
SCALE: 1/2"=1'-0"
24, 25, 37, 38, 51



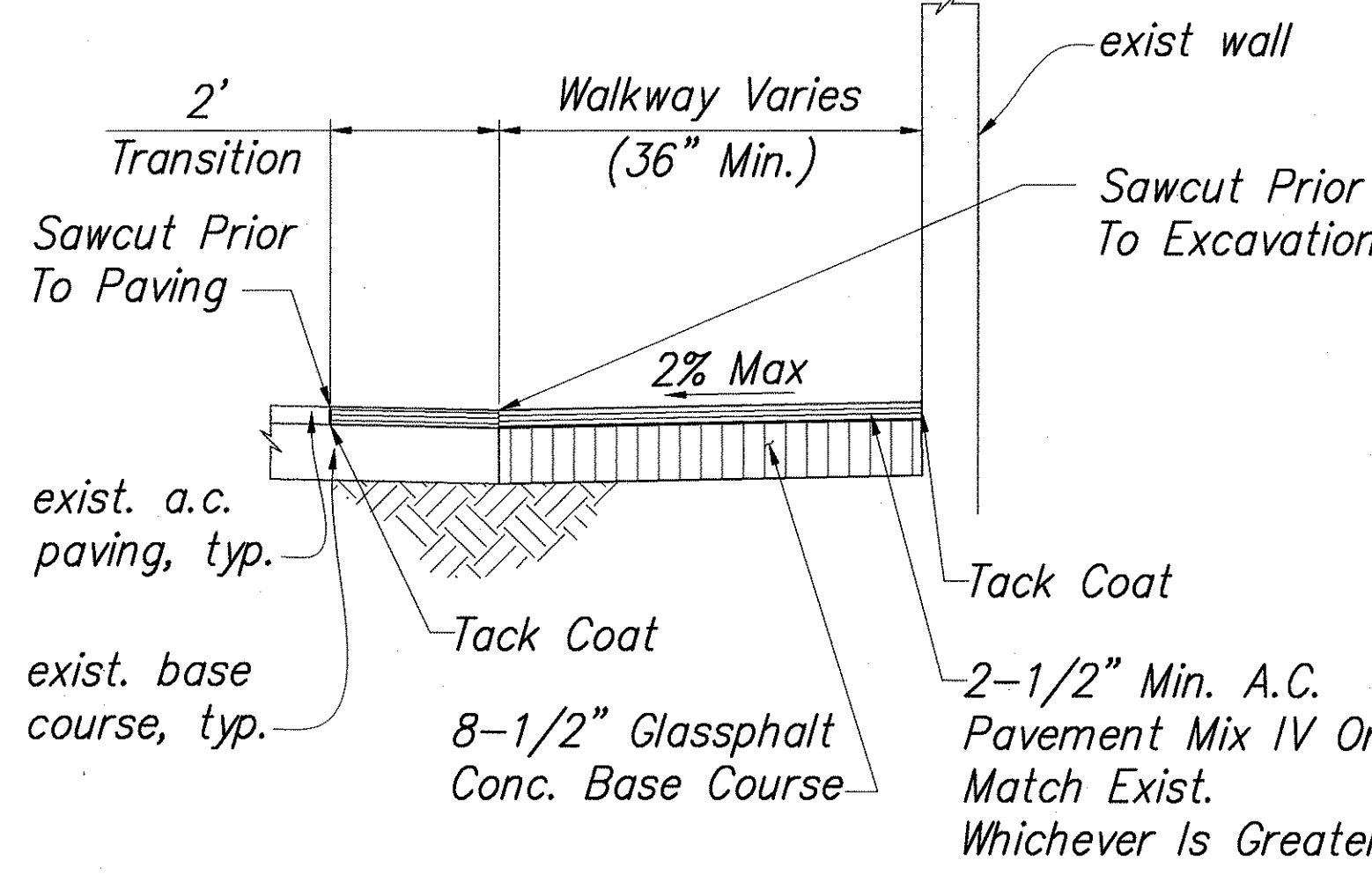
A.C. DRIVEWAY REPAIR DETAIL 2
SCALE: 1/2"=1'-0"
23, 81



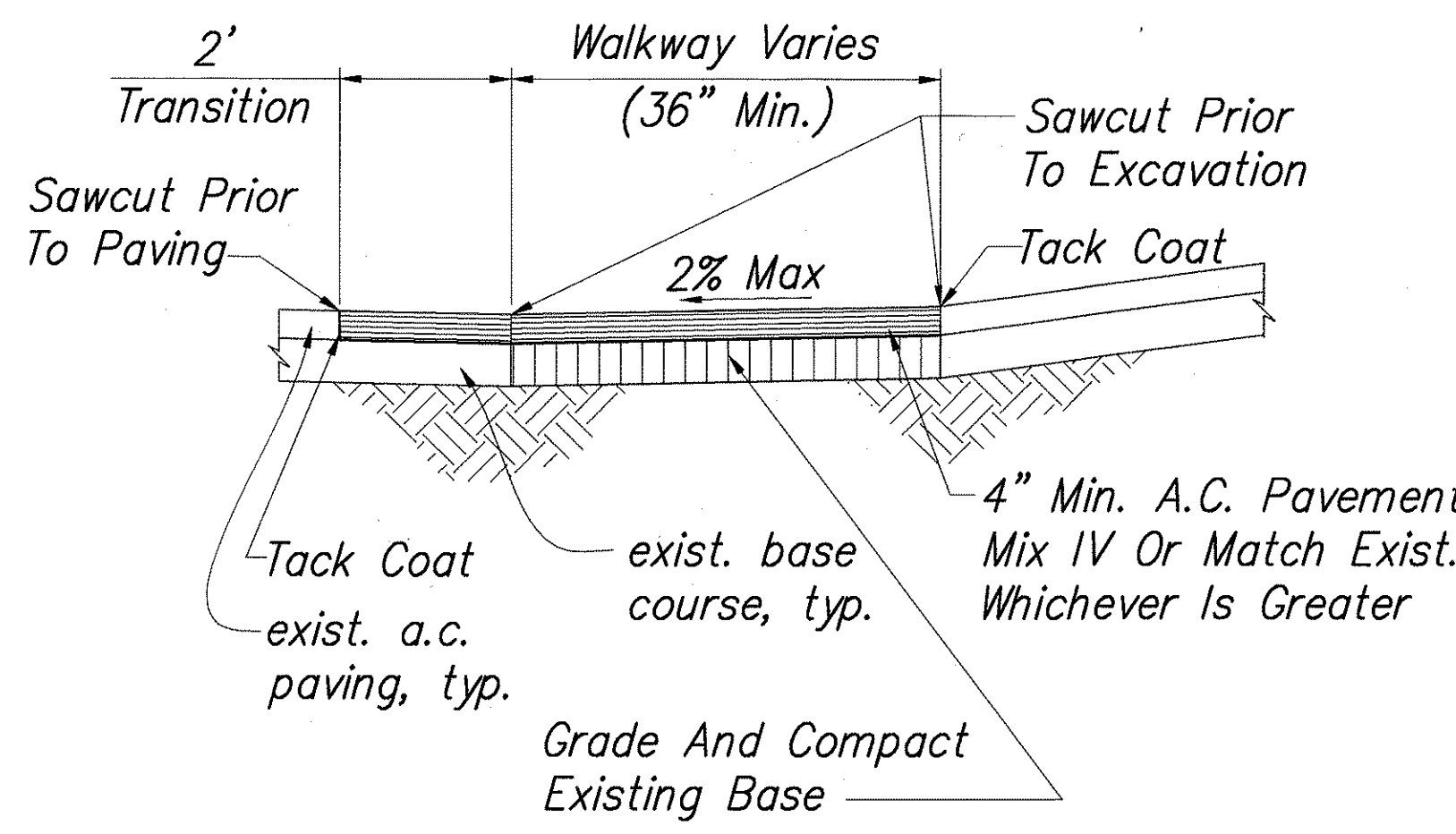
A.C. PAVEMENT REPAIR DETAIL 3
SCALE: 1/2"=1'-0"
26, 27, 30, 39, 51



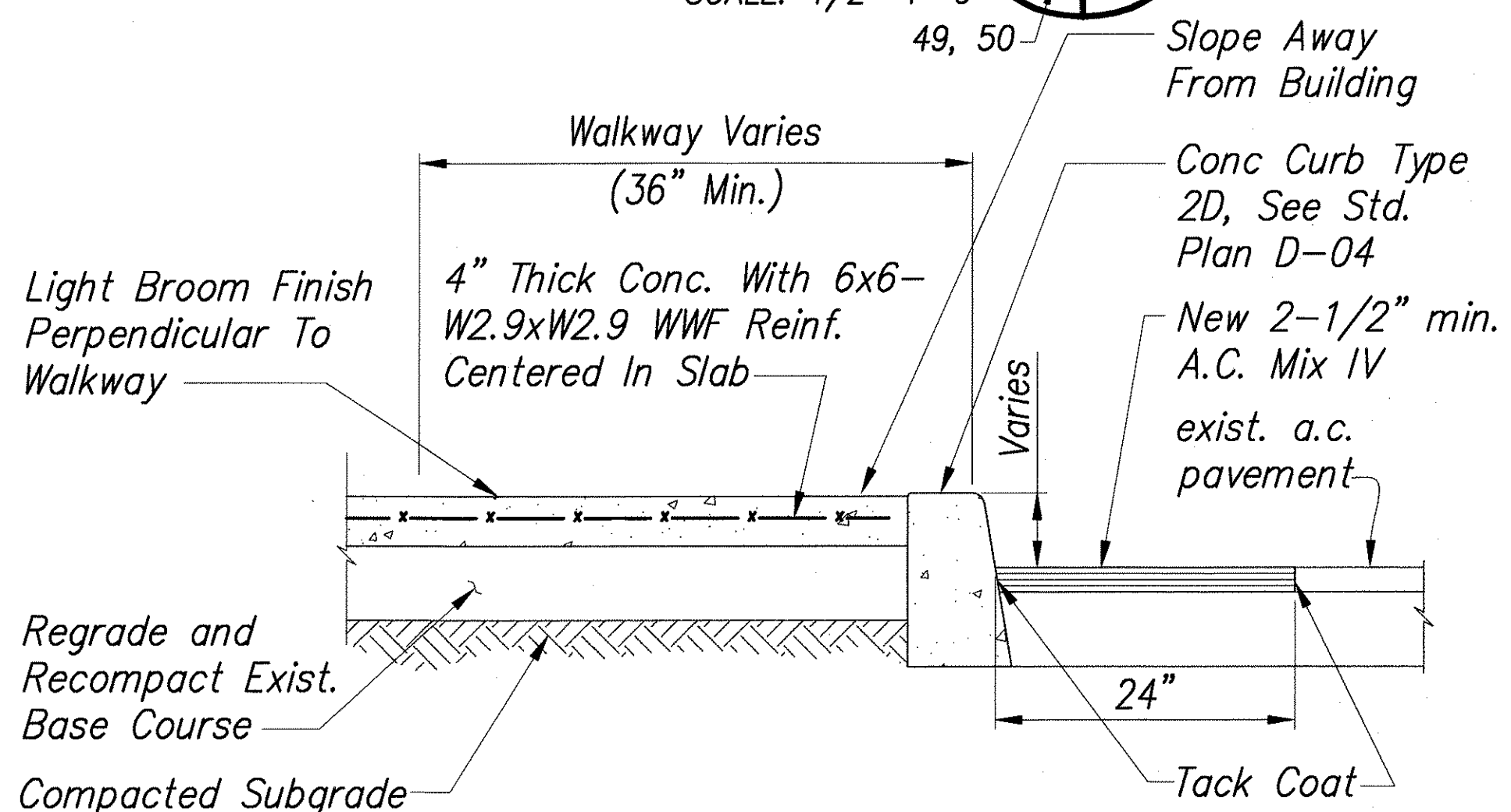
A.C. PAVEMENT REPAIR DETAIL 4
SCALE: 1/2"=1'-0"
49, 50



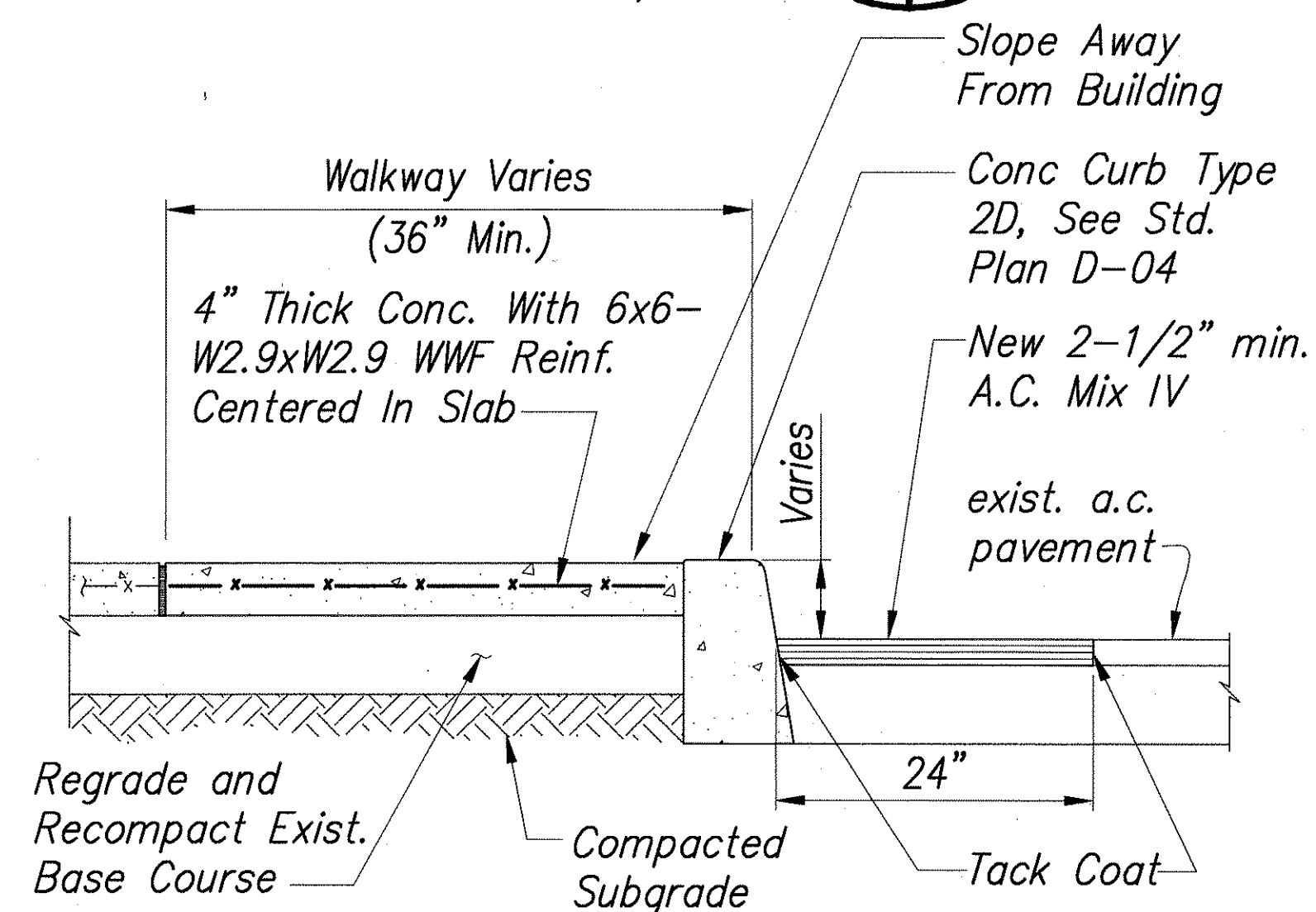
A.C. PAVEMENT REPAIR DETAIL 5
SCALE: 1/2"=1'-0"
29, 81



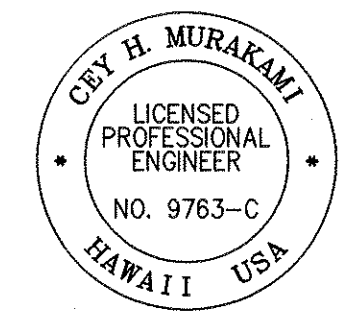
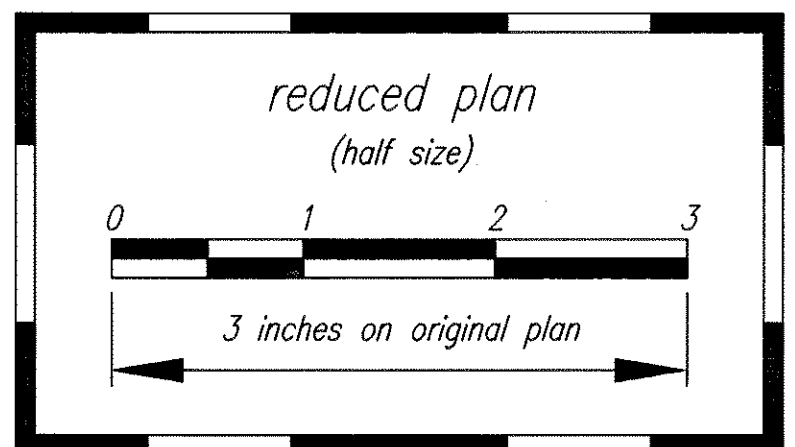
A.C. PAVEMENT REPAIR DETAIL 6
SCALE: 1/2"=1'-0"
25, 29



CONCRETE SIDEWALK REPAIR 7
SCALE: 1"=1'-0"
51, 81



CONCRETE SIDEWALK REPAIR 8
SCALE: 1"=1'-0"
39, 51



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Cey H. Murakami 04/30/06
SIGNATURE EXPIRATION DATE OF THE LICENSE

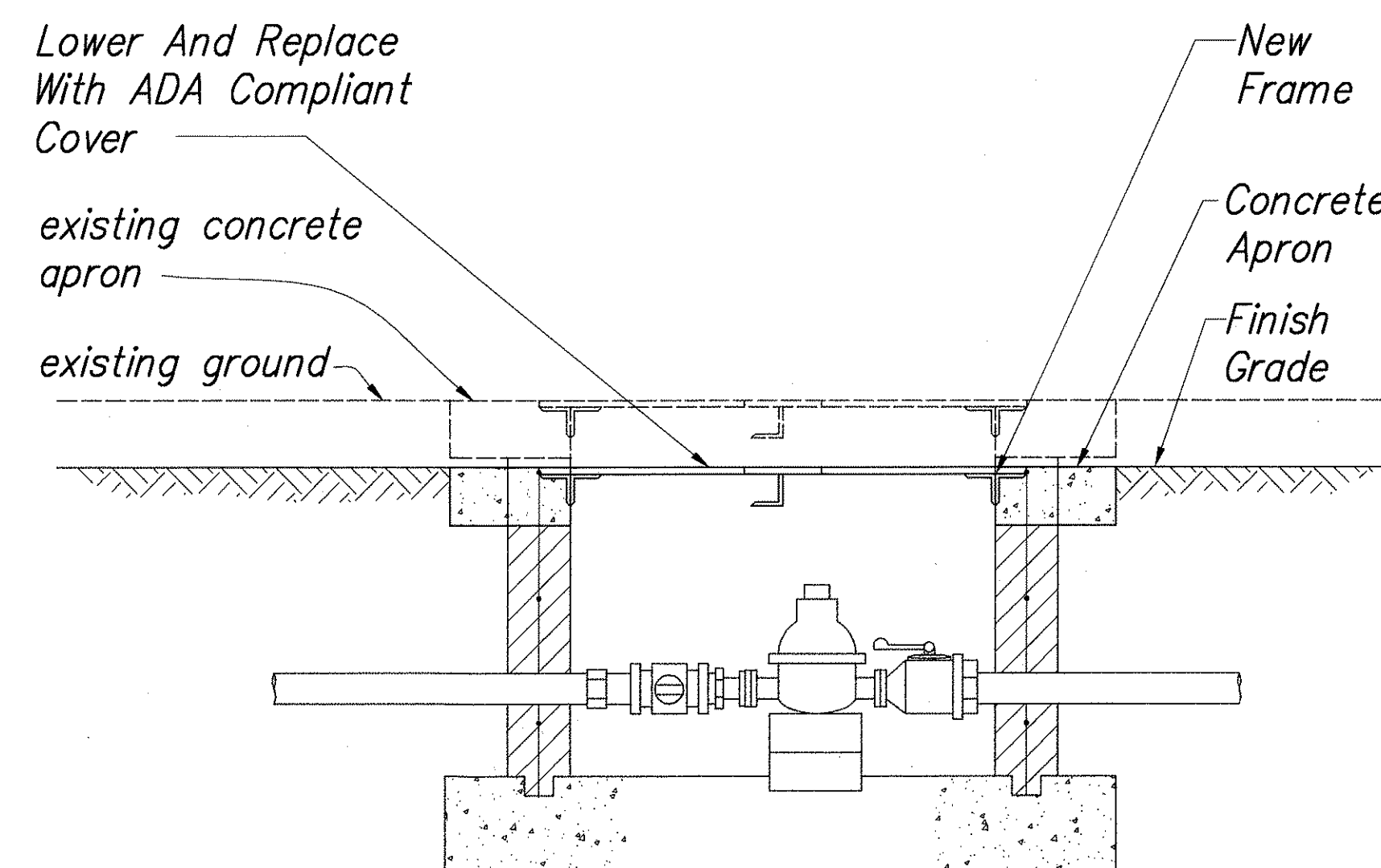
"AS-BUILT"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISC. DETAILS - 9
PEDESTRIAN ACCESSIBILITY ROUTE
IMPROVEMENTS - HONOKAA, HAWAII, AND KAPAAU
Federal Aid Project No. CMAQ-0100(62)
Scale: AS NOTED Date: SEPT. 2004
SHEET No. 81 OF 86 SHEETS

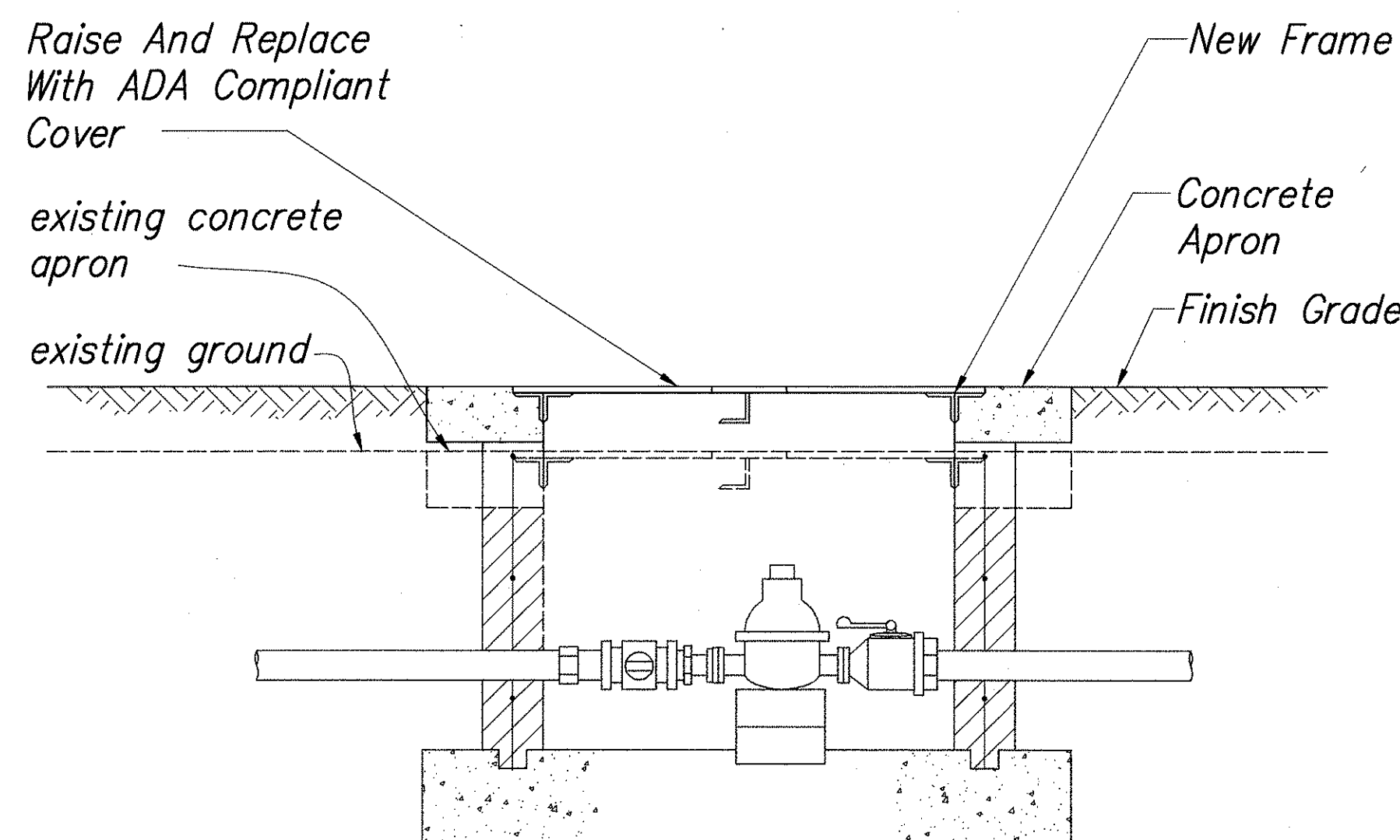
DESIGNED BY	DL	DATE	9/2004
CHECKED BY	DL	DATE	9/2004
NOTED BY	CM	DATE	9/2004
QUANTITIES BY	TC	DATE	9/2004
DESIGNED BY	ES	DATE	9/2004

I: 2000\2000_070.000 PROJECT POINT - PEDESTRIAN ACCESSIBILITY\G DRAWINGS\DETAILS\G-DT0081 MISC.DETAILS09.DWG 08/06/04 11:01 AS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	82	86



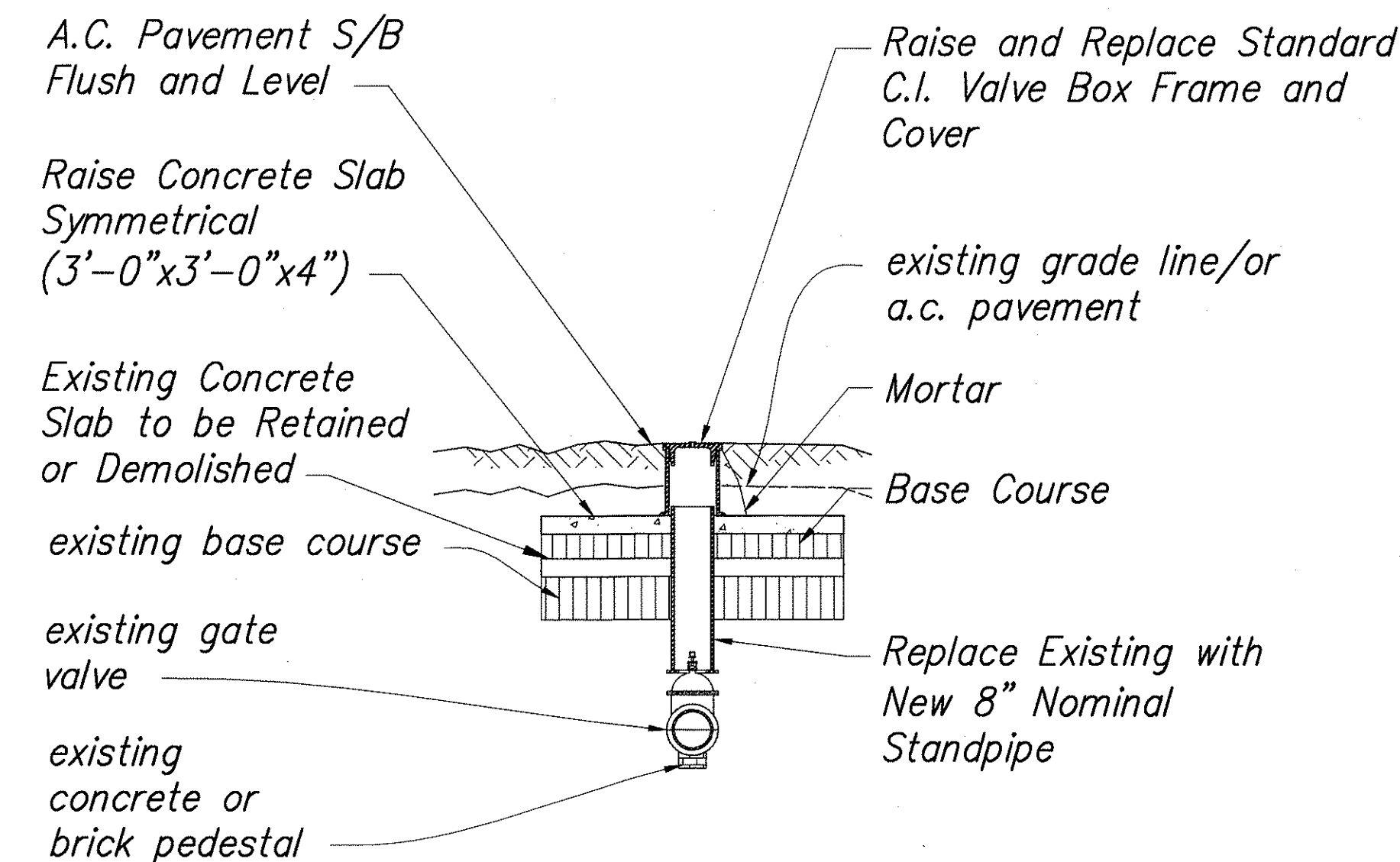
LOWER
NOT TO SCALE



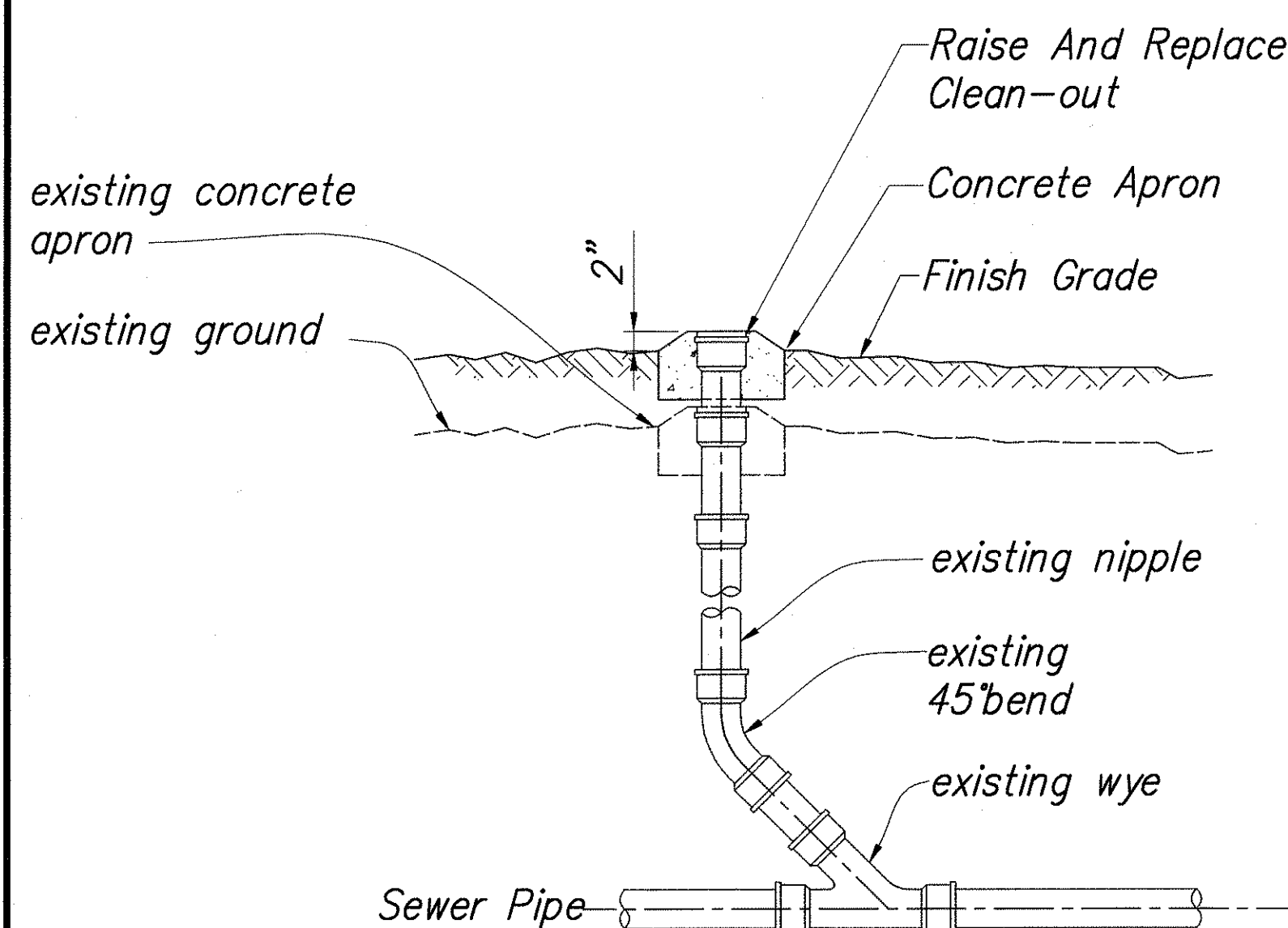
RAISE
NOT TO SCALE

ADJUSTED WATER METER FRAME AND COVER DETAIL

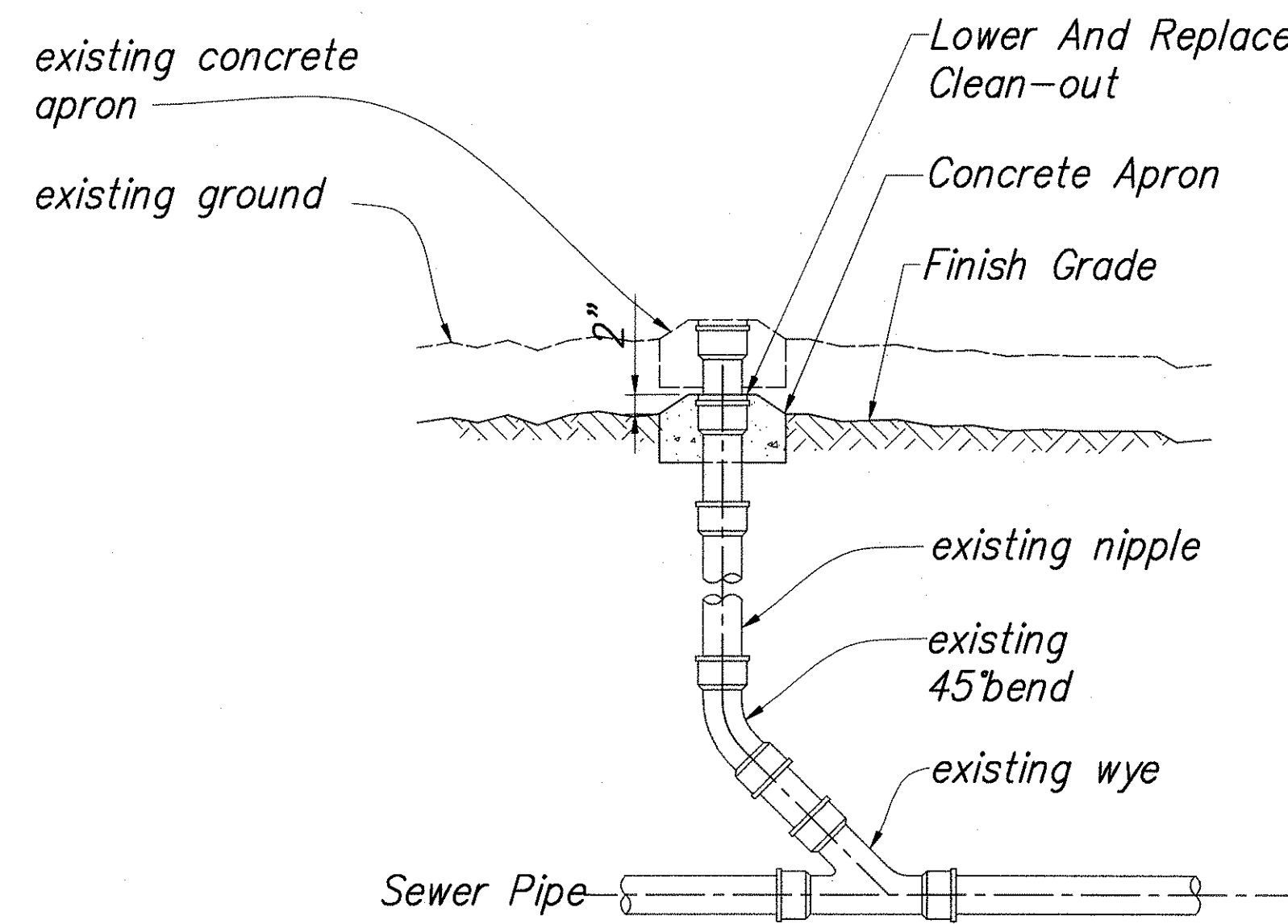
NOT TO SCALE
23, 27, 38, 51, 53



RAISE
NOT TO SCALE



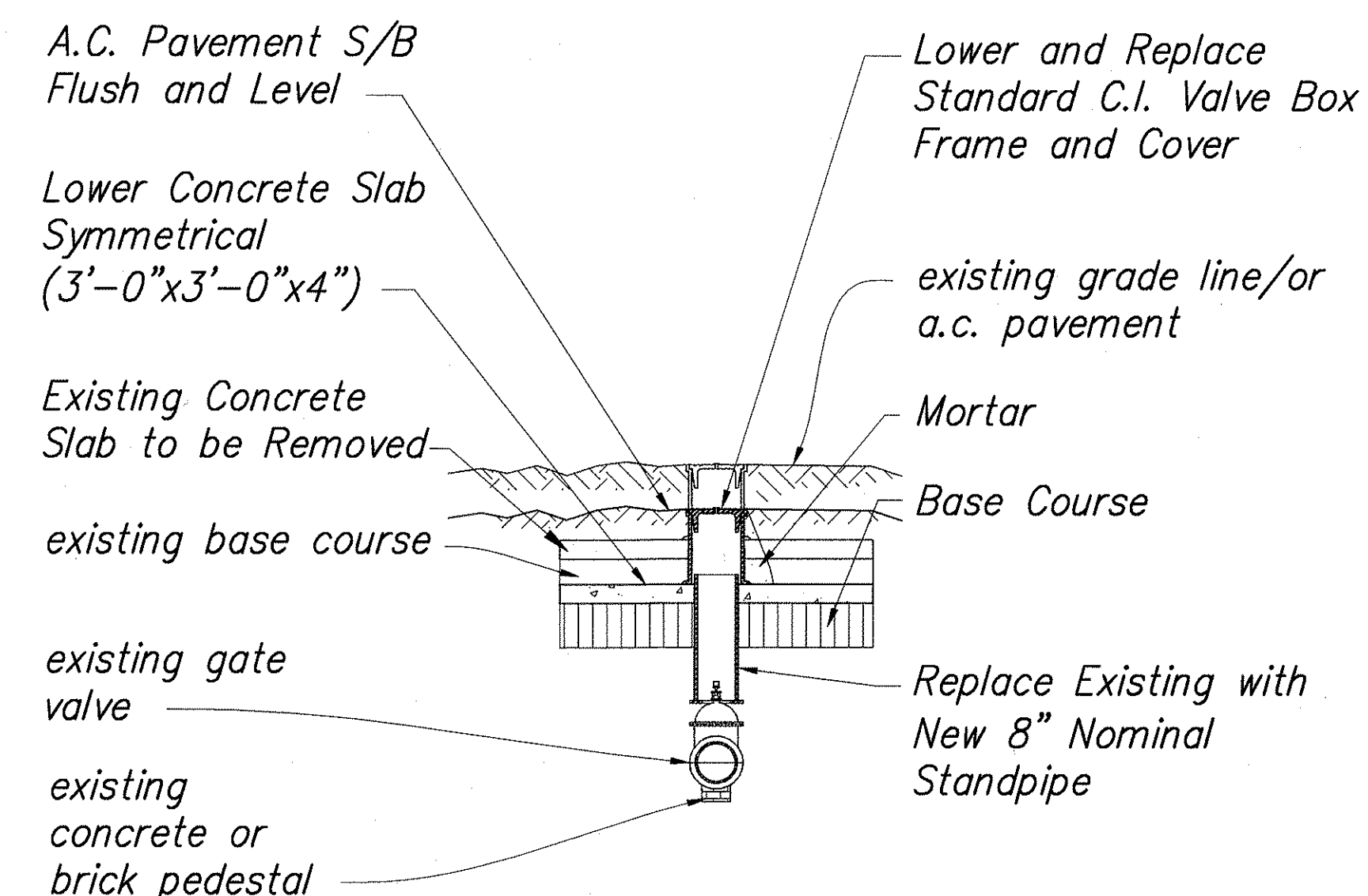
RAISE
NOT TO SCALE



LOWER
NOT TO SCALE

ADJUSTED CLEAN-OUT DETAIL

NOT TO SCALE

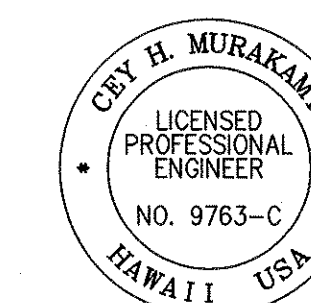
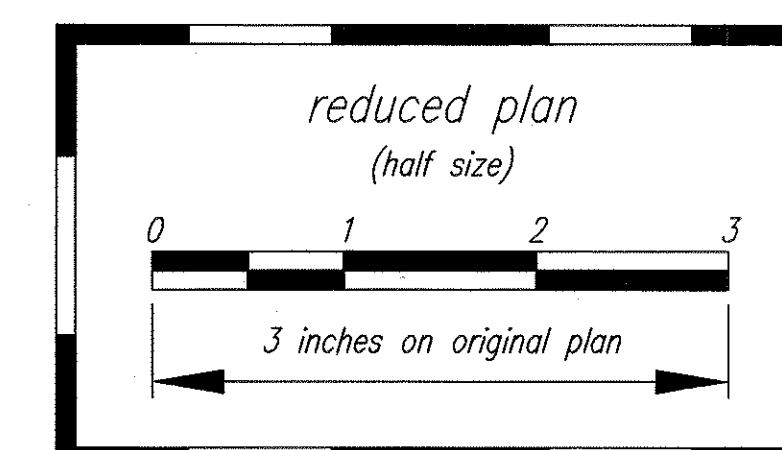


LOWER
NOT TO SCALE

ADJUSTED WATER VALVE BOX DETAIL

NOT TO SCALE
26, 27, 38

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	9/2004
DRAWN BY	DL
DESIGNED BY	DL
CHECKED BY	DL
NOTED BY	DL
NO.	9/2004



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Cey H. Murakami 04/30/06
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISC. DETAILS - 10

PEDESTRIAN ACCESSIBILITY ROUTE
IMPROVEMENTS - HONOKAA, HAWAII, AND KAPAAU
Federal Aid Project No. CMAQ-0100(62)
Scale: AS NOTED Date: SEPT. 2004

SHEET No. 82 OF 86 SHEETS

