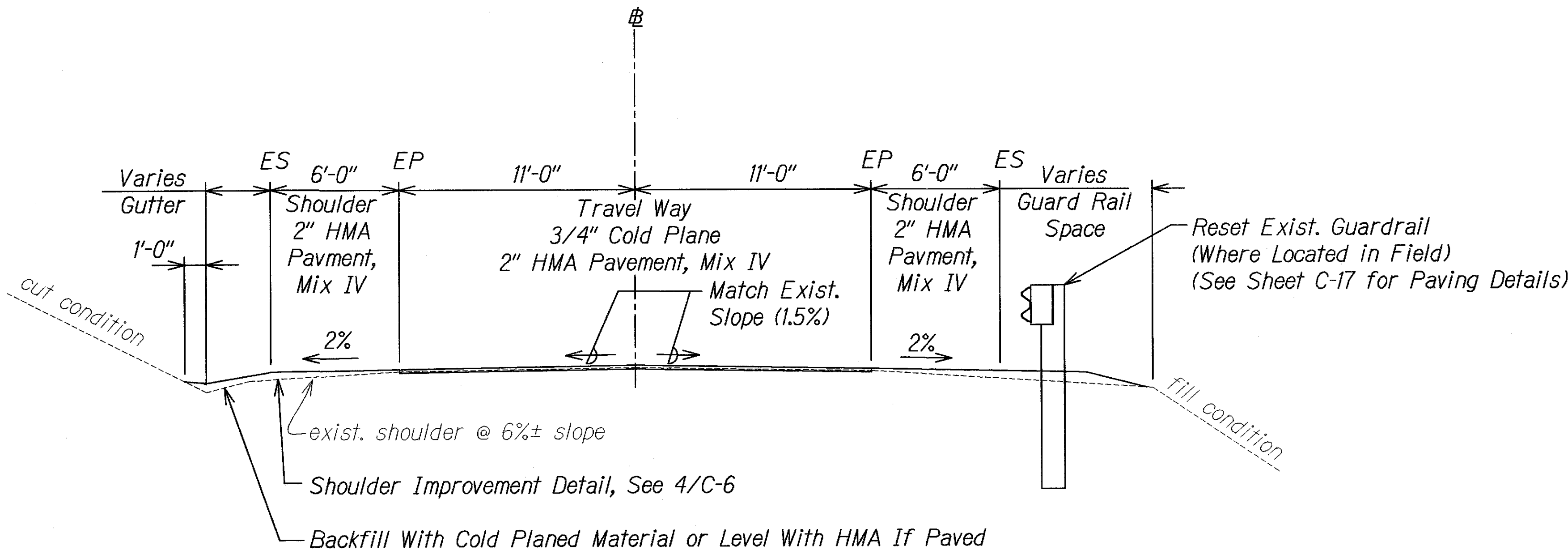


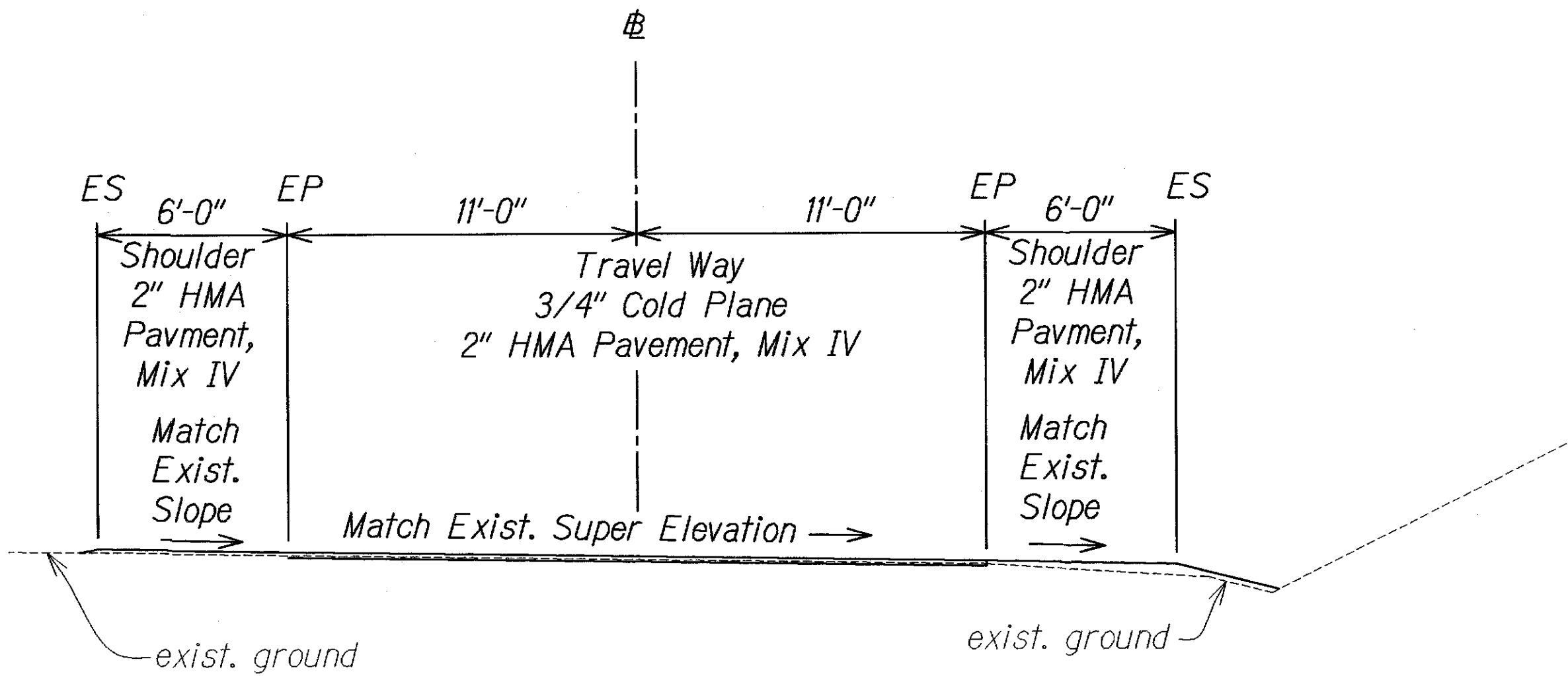
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	190B-01-09M	2010	6	54



CONSTRUCTION SEQUENCING:

1. Reconstruct weakened pavement areas.
2. Cold plane travel lane and shoulder until daylight on shoulder.
3. Reconstruct unpaved shoulders with cold planed material
4. Level shoulders to provide a 2% cross slope across the entire width of the shoulder beginning at cold planed mark on shoulder. Shoulder slopes at superelevations shall match existing.
5. Pave travelway and shoulders.

TYPICAL CROWNED SECTION
Scale: 1/4"= 1'-0"

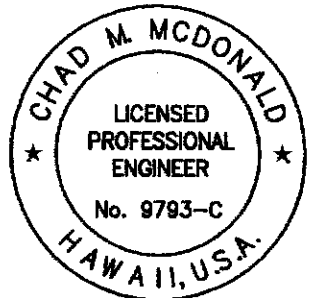
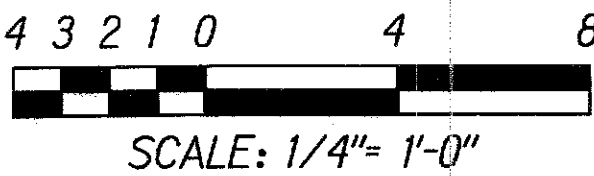


TYPICAL SUPERELEVATED SECTION
Scale: 1/4"= 1'-0"

Note:
Apply tack coat to existing HMA pavement and edge of all transverse and longitudinal joints prior to resurfacing.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

GRAPHIC SCALE:



This work was prepared by me or under my supervision

Chad M. McDonald
MITSUNAGA & ASSOCIATES, INC. EXP. DATE 4/30/2012
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

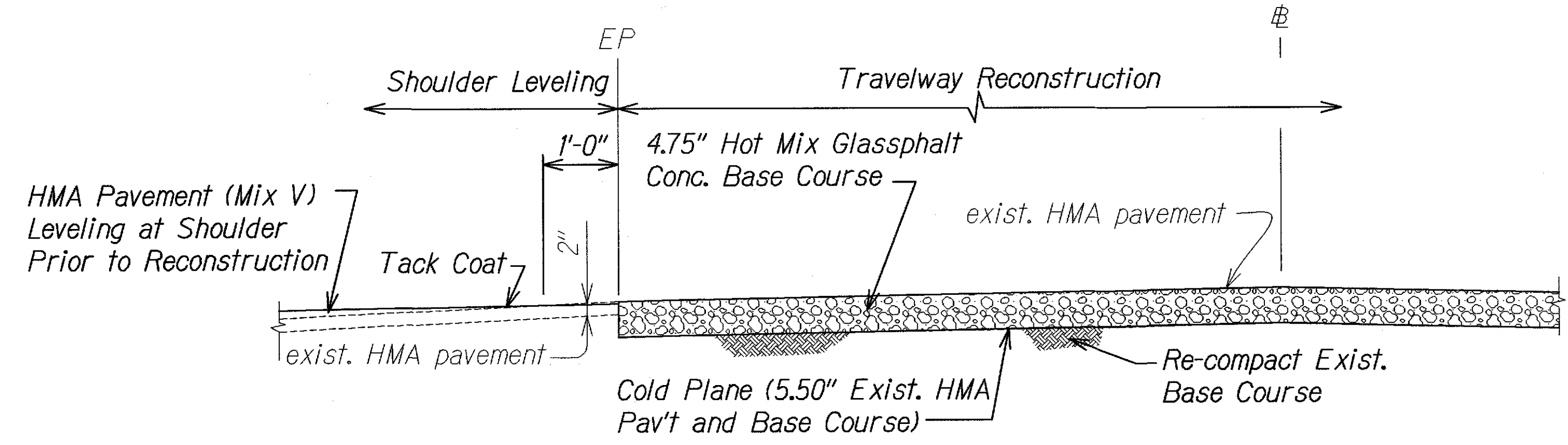
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

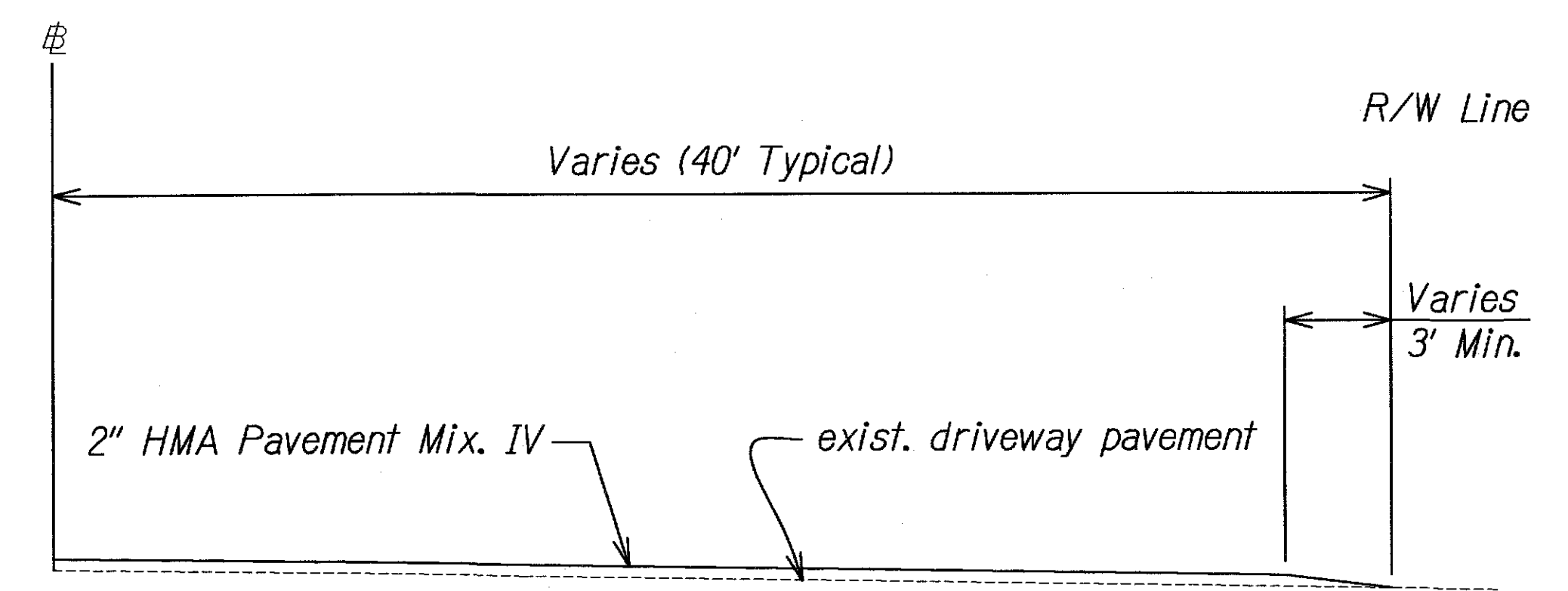
MAMALAHOA HIGHWAY RESURFACING
Kaupulehu to Makalei Road
Project No. 190B-01-09M
Scale: As Noted Date: May 2010

SHEET No. **C-4** OF **54** SHEETS

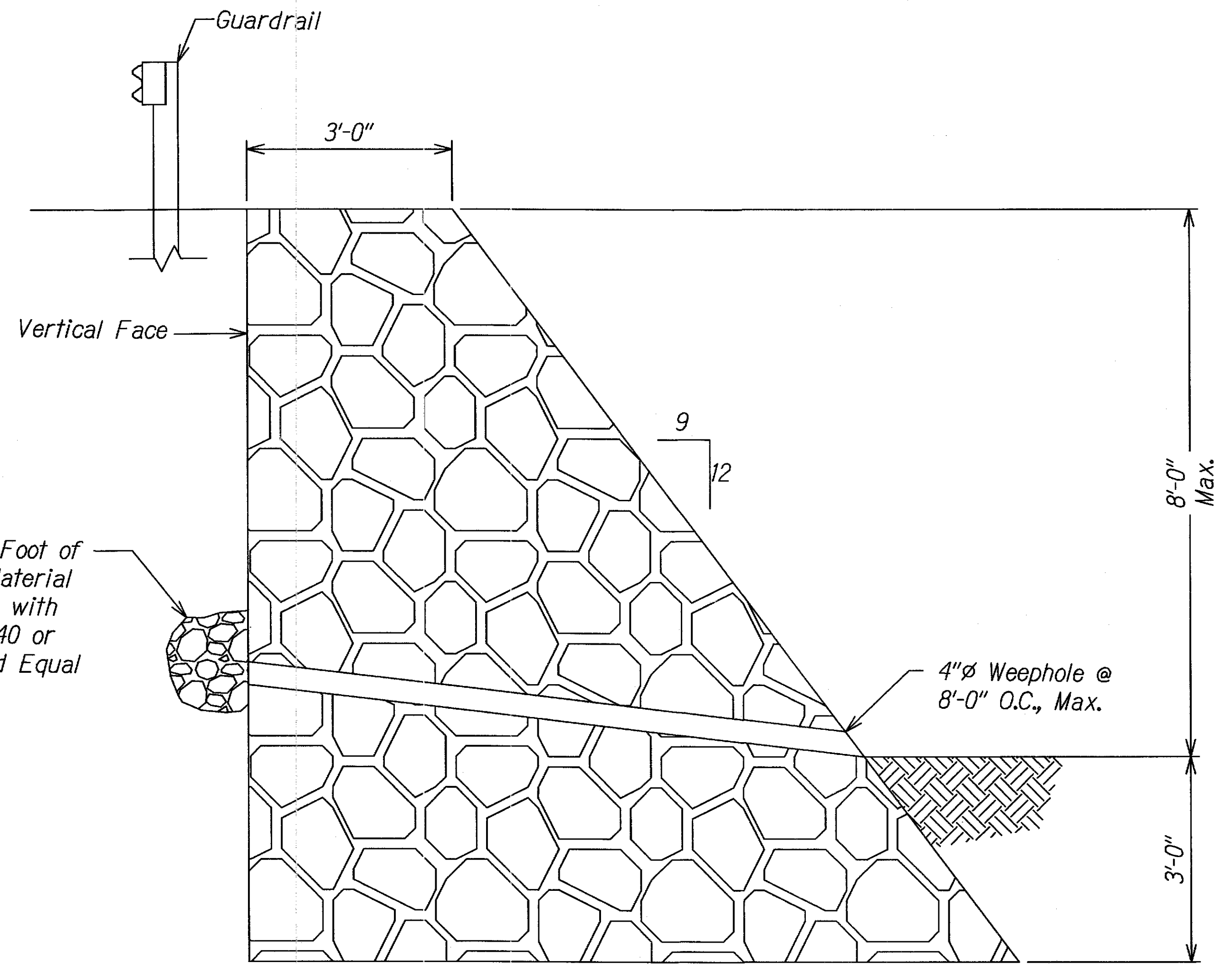
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	190B-01-09M	2010	7	54



TYPICAL PAVEMENT RECONSTRUCTION
 Not to Scale 1
C-5 | C-5



TYPICAL DRIVEWAY CONNECTION
 Not to Scale 2
C-5 | C-5



CRM RETAINING WALL DETAIL
 Scale: 3/4"= 1'-0" 3
C-5 | C-5

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

CHAD M. McDONALD
 LICENSED PROFESSIONAL ENGINEER
 No. 9793-C
 HAWAII, U.S.A.

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Chad M. McDonald 4/30/2012
 MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
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 HIGHWAYS DIVISION

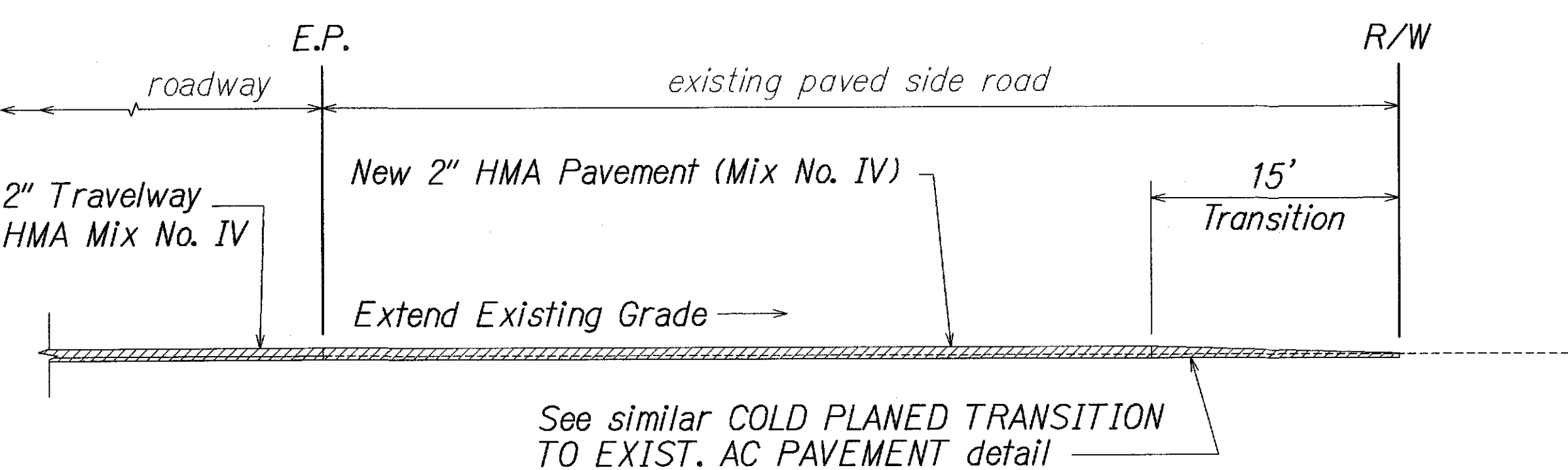
TYPICAL SECTIONS

MAMALAHOA HIGHWAY RESURFACING
Kaupulehu to Makalei Road
Project No. 190B-01-09M

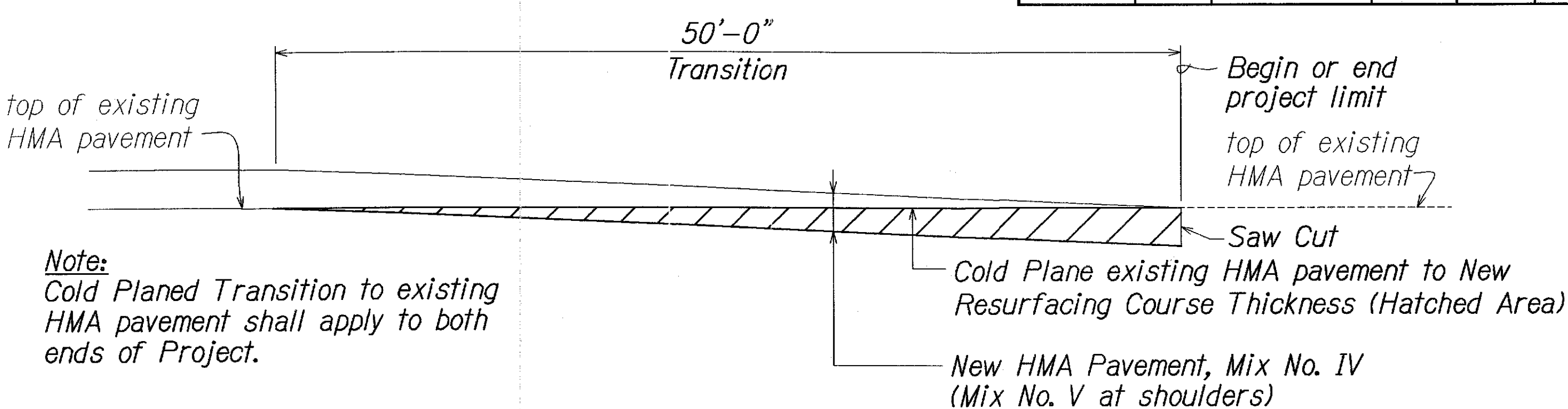
Scale: As Noted Date: May 2010

SHEET No. **C-5** OF **54** SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	190B-01-09M	2010	8	54

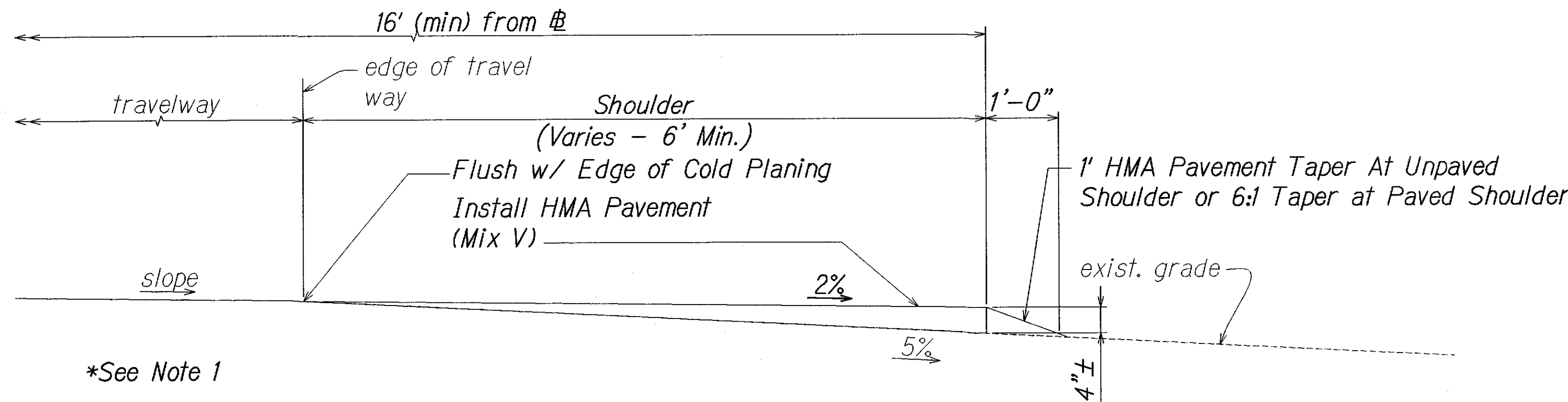


HMA RESURFACING AT PAVED SIDEROAD DETAIL 1
Not to Scale C-6 | C-6



Note:
Cold Planed Transition to existing HMA pavement shall apply to both ends of Project.

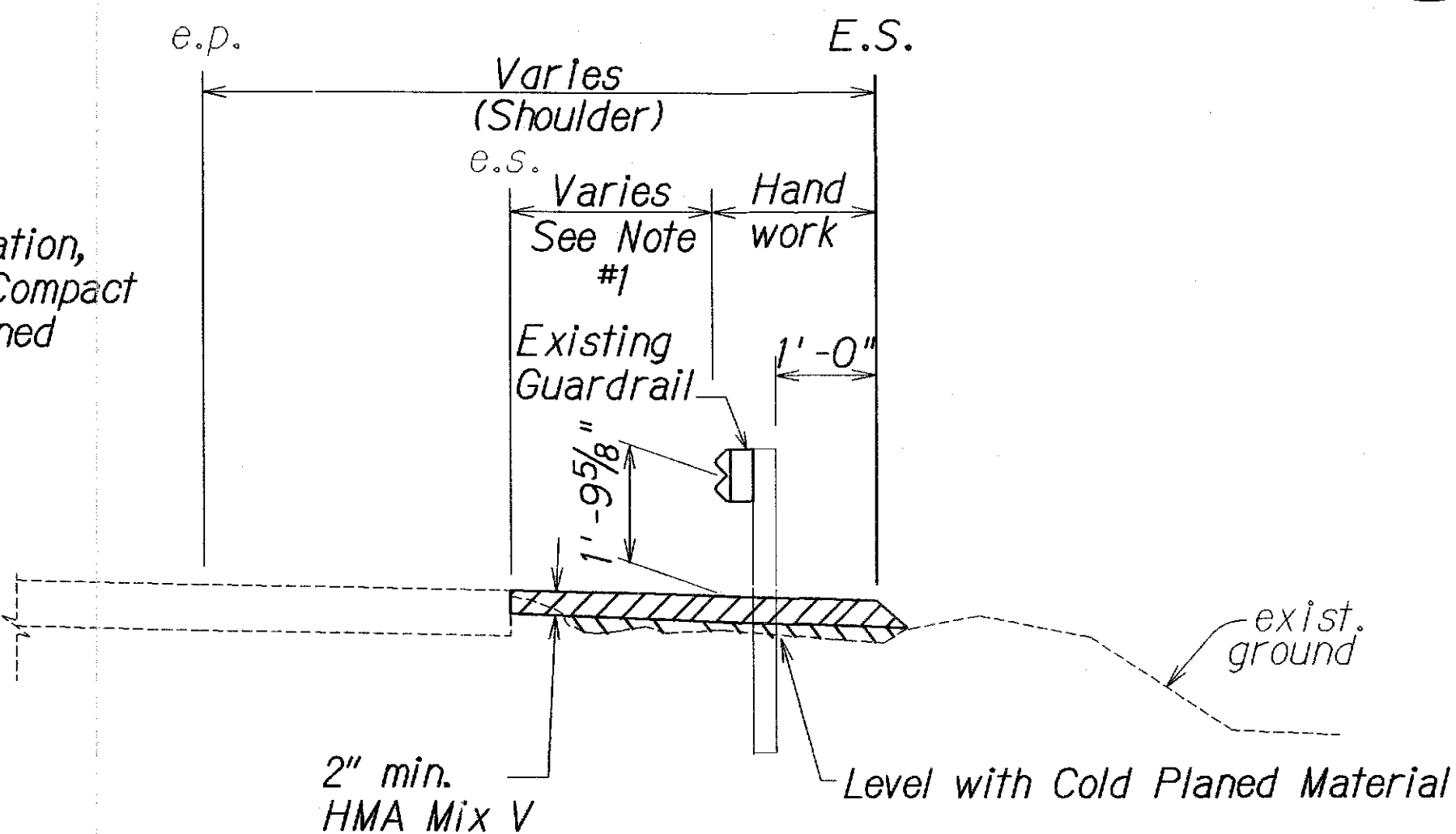
COLD PLANED TRANSITION TO EXISTING HMA PAVEMENT 5
Not to Scale C-6 | C-6



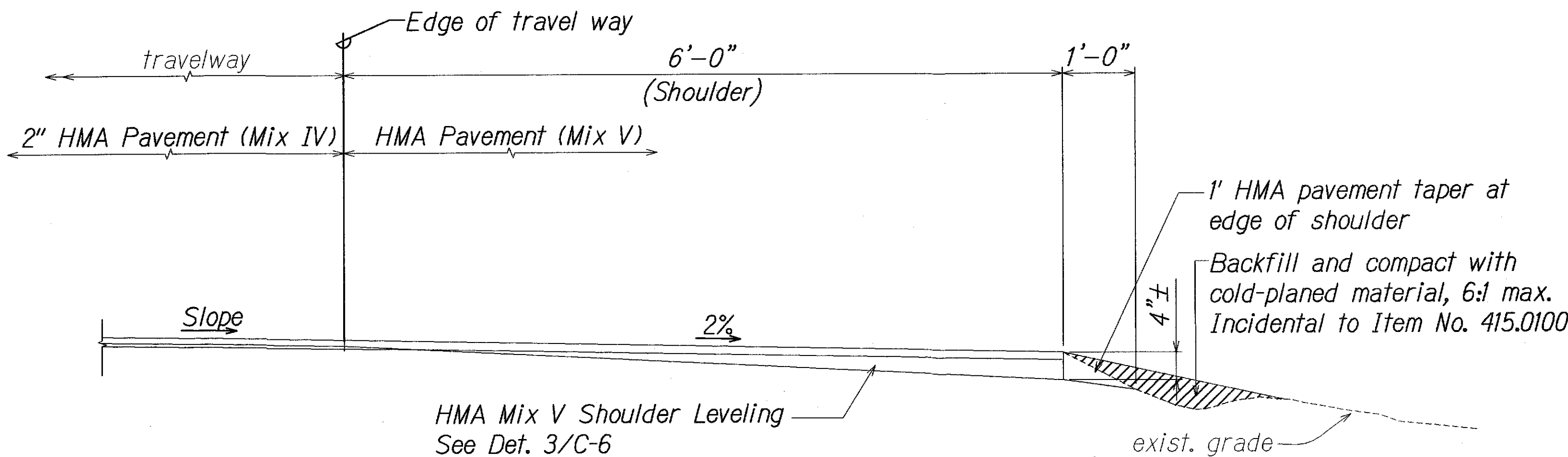
*See Note 1

SHOULDER LEVELING DETAIL 3
Not to Scale C-6 | C-6

Note 1:
Remove Vegetation, Backfill and Compact with Cold Planed Material

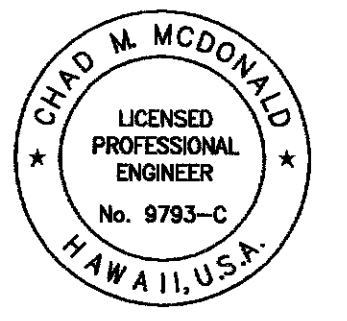


TYPICAL PAVING UNDER EXISTING GUARDRAIL 6
Not to Scale C-6 | C-6



SHOULDER IMPROVEMENT DETAIL 4
Not to Scale C-4 | C-6

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



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NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

MAMALAHOA HIGHWAY RESURFACING
Kaupulehu to Makalei Road
Project No. 190B-01-09M

Scale: As Noted Date: May 2010

SHEET No. C-6 OF 54 SHEETS