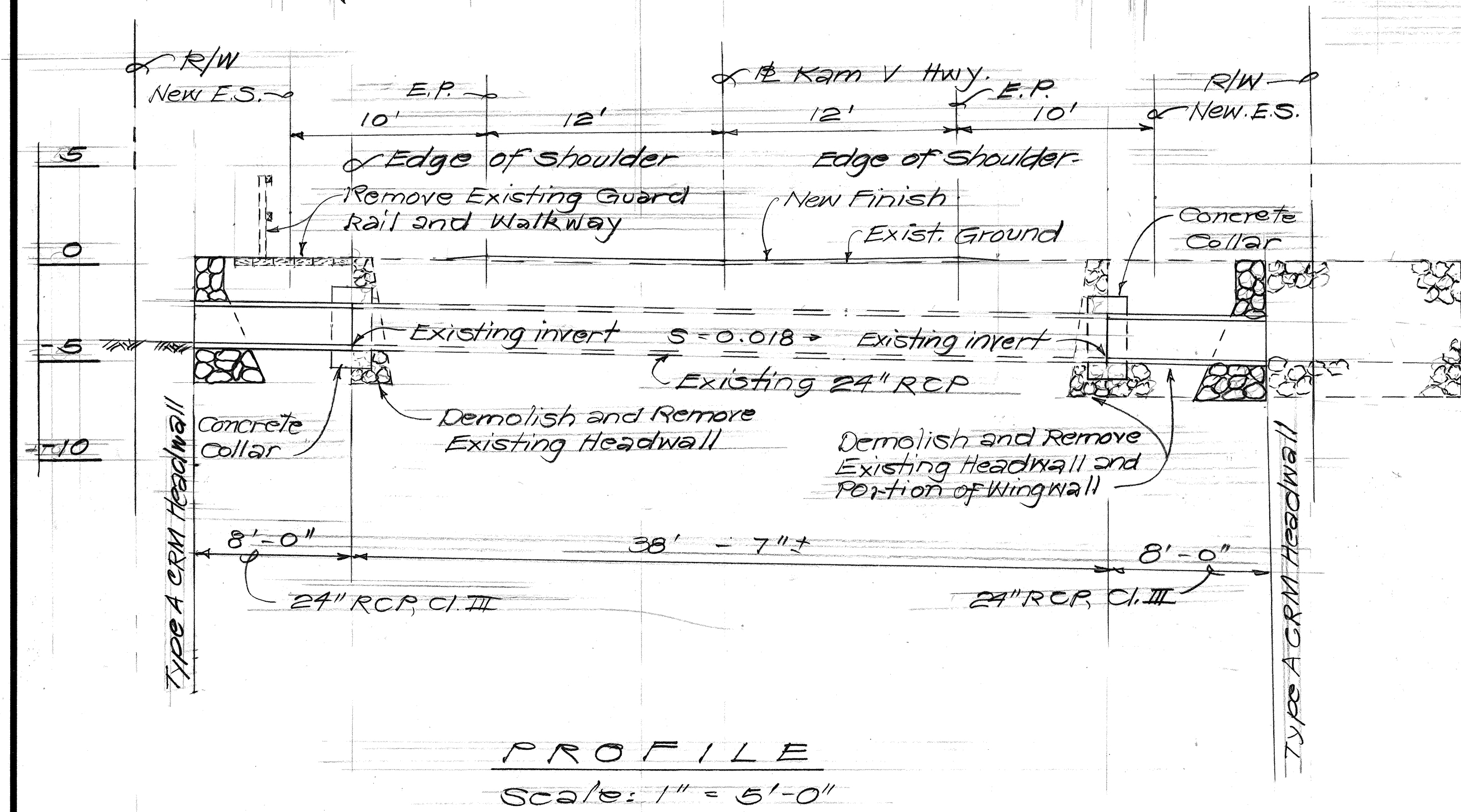
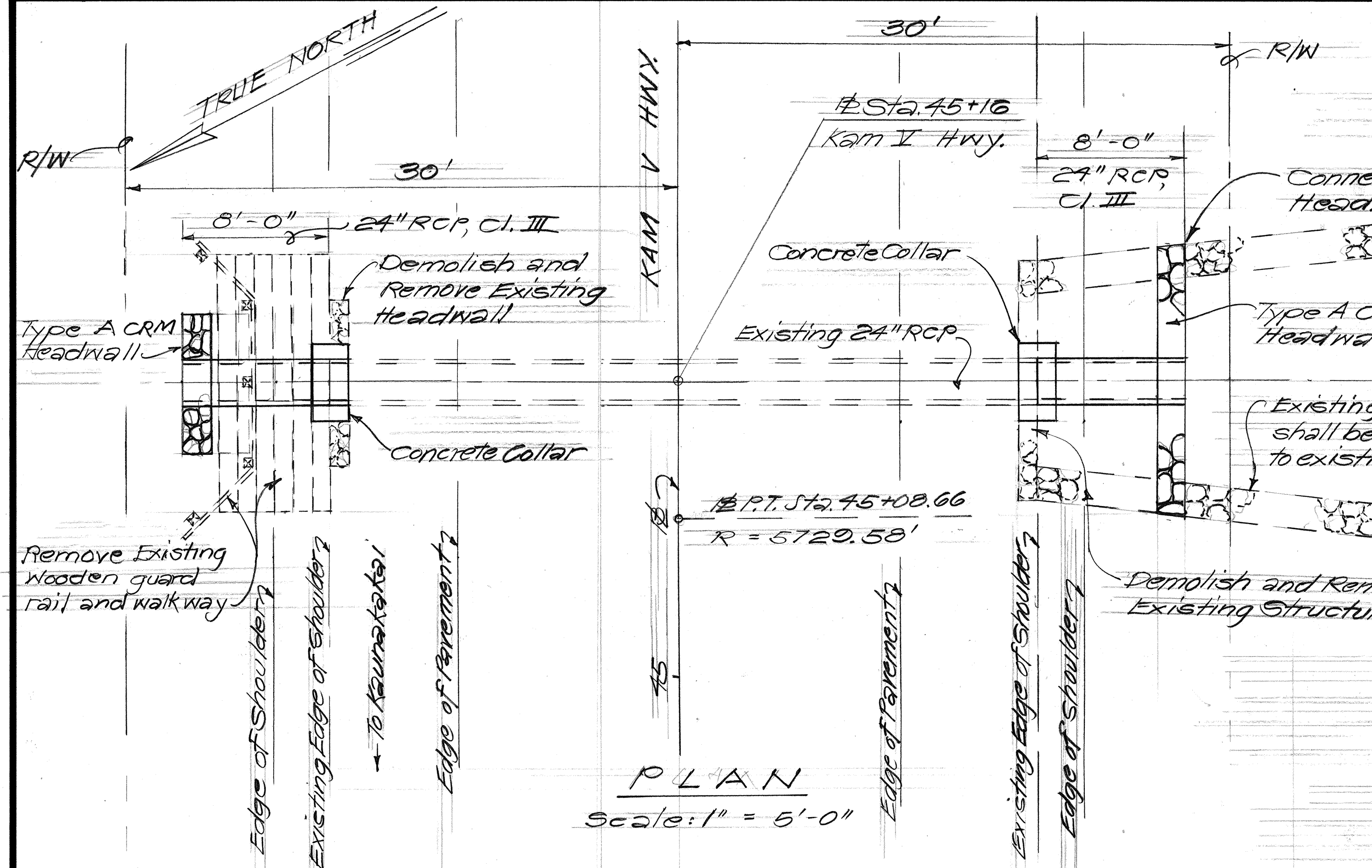
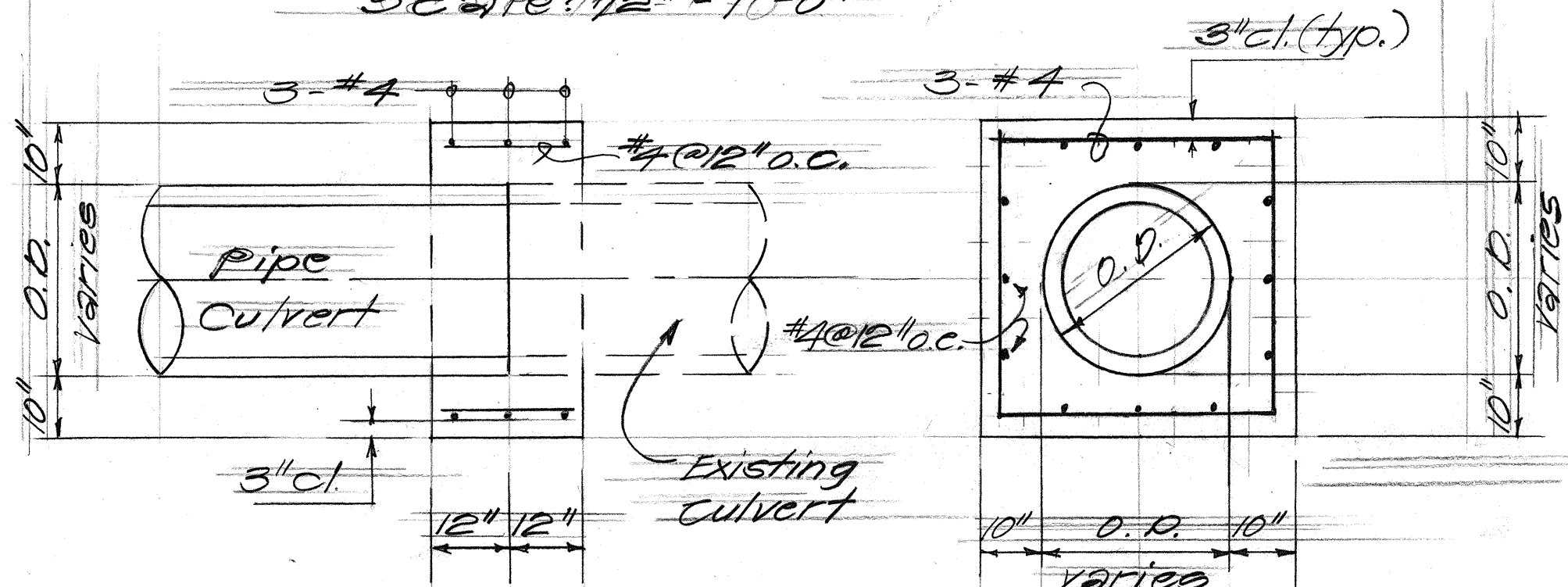
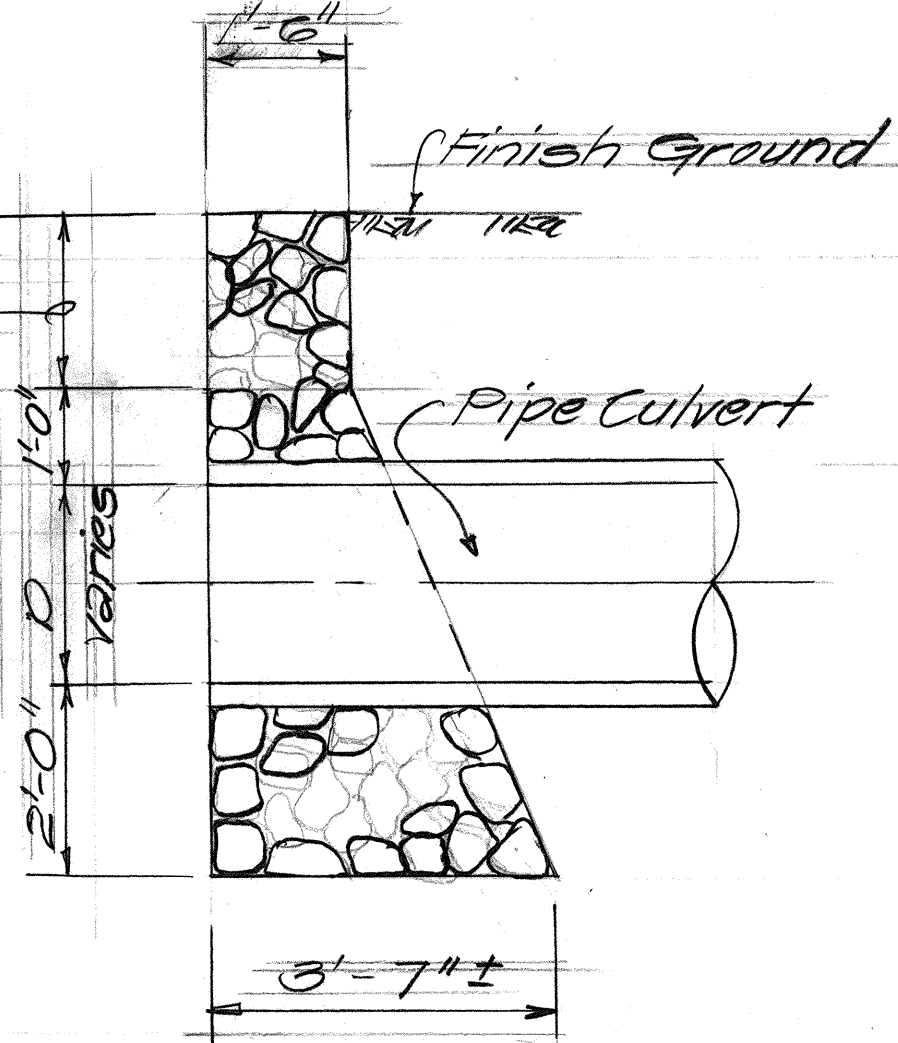




CRM HEADWALL TABLE			
Sta.		h	L
45+16	L	1'-6" ± 7'-0"	
45+16	R	2'-0" ± 15'-0"	
63+30.7 ± R		3'-0" ± 7'-6"	
96+00	R	2'-0" ± 6'-0"	

ESTIMATED QUANTITIES

24" RCP, Cl. III 16 L.F.
 Cement Rubble Masonry 13 C.Y.
 Structure Excavation other than at bridges 12 C.Y.

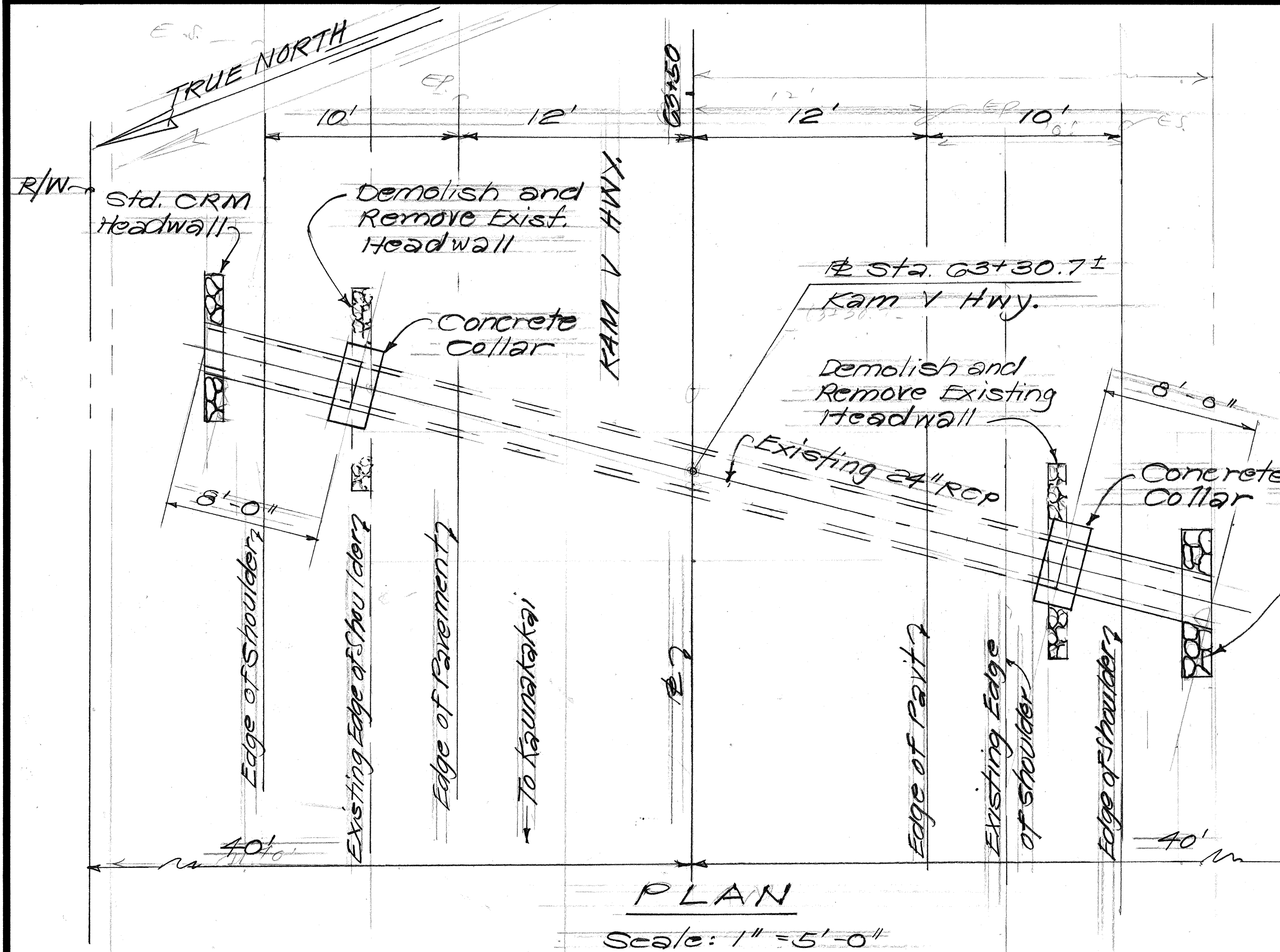


DRAINAGE NOTES:

1. Elevations shown in culvert profile are relative only. (Existing centerline grade assumed to be zero elevation)
2. Extend culvert along existing culvert slope to determine inverts of inlet and outlet or as directed by the Engineer.
3. The entrance and outlet condition of the culvert shall be graded to the satisfaction of the Engineer. Above work shall be considered incidental to the various contract items.
4. Culvert alignment shall be same as existing or as directed by the Engineer.
5. Demolishing and removal of existing culverts and structures shall not be paid for separately but shall be considered incidental to the various contract items.
6. All existing reinforced concrete pipes and concrete box culverts shall be cleaned to the satisfaction of the Engineer. Above work shall be considered incidental to the various contract items.
7. Fill and grade areas around the culvert extensions as required to provide a smooth and level transition to existing ground. Above work shall be considered incidental to the various contract items.
8. Concrete collar shall not be paid for separately but shall be considered incidental to the various contract items.

DETAILS OF CULVERT EXTENSION AT STA. 45+16 LT. & RT. & R/W

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0450(4)	1987	7	9



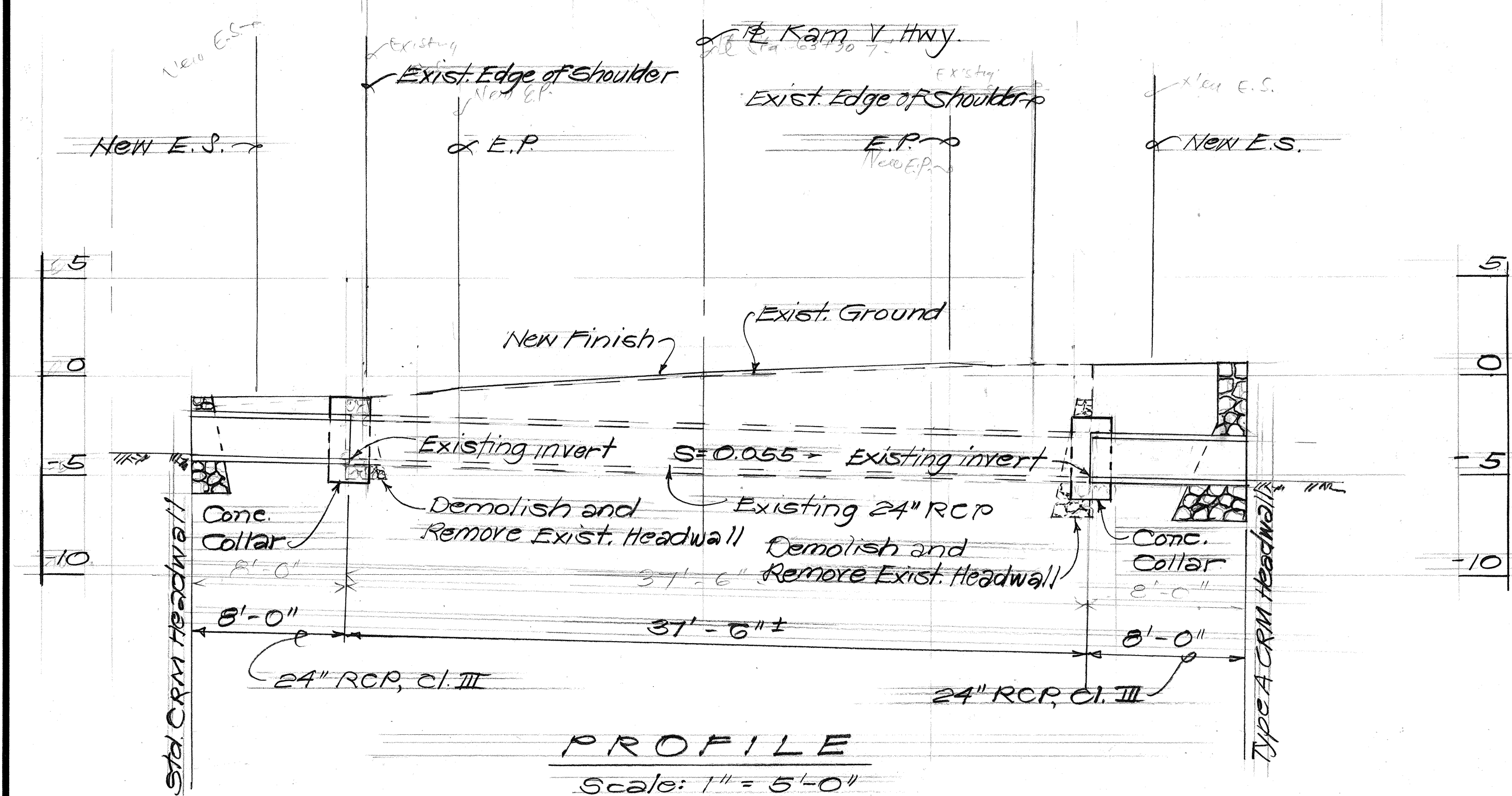
PLAN
Scale: 1" = 5'-0"

ST. STA. 63+30.71
Construct: Standard CRM Headwall
Type A CRM Headwall
(For details, See sht. no. 5)
Install: 24" RCP, Class III

ESTIMATED QUANTITIES
24" RCP Cl. III 16 L.F.
Cement Rubble Masonry 6 C.Y.
Structure Excavation other than at Bridges 5 C.Y.
Type A CRM Headwall
Std. CRM Headwall

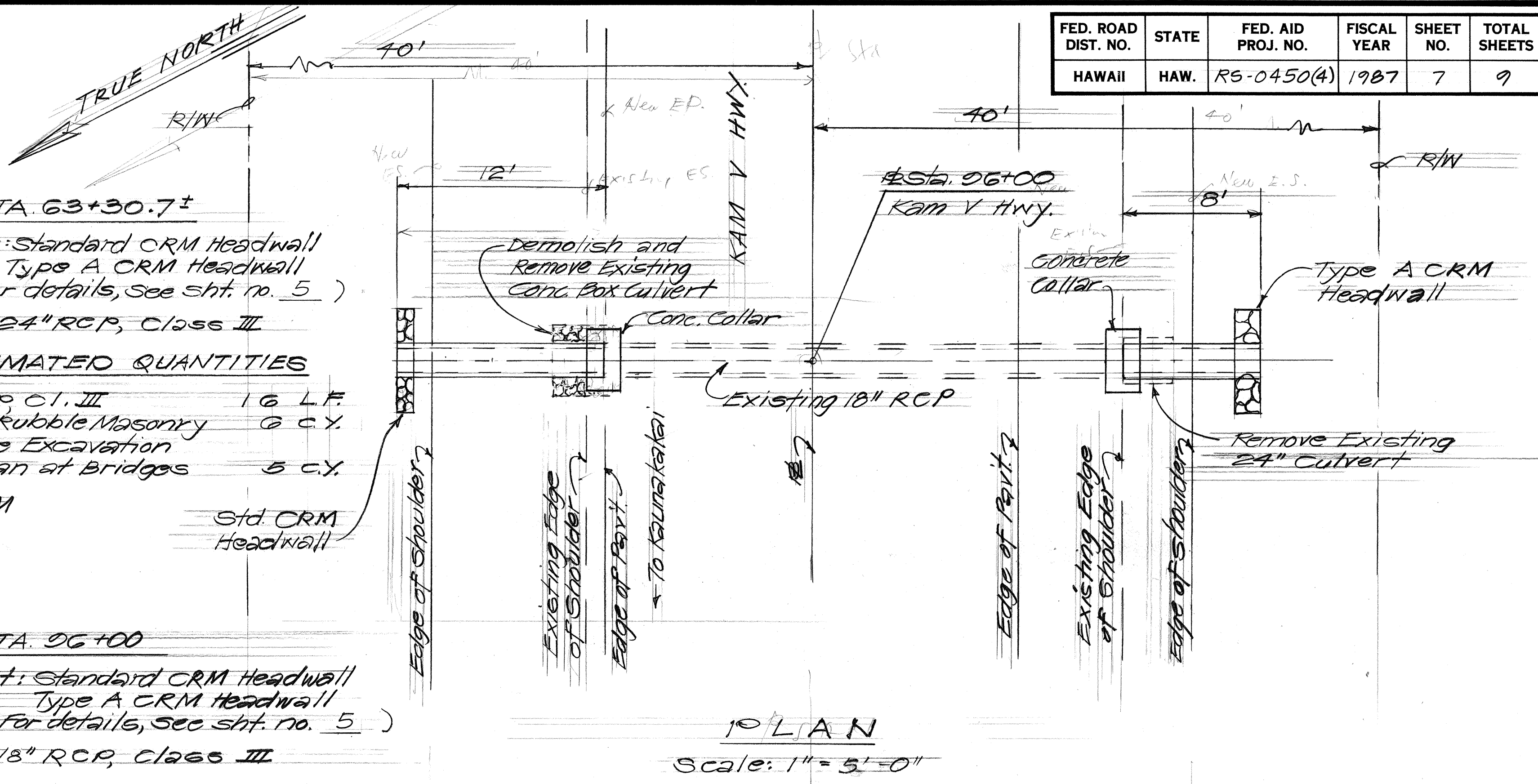
ST. STA. 96+00
Construct: Standard CRM Headwall
Type A CRM Headwall
(For details, See sht. no. 5)
Install: 18" RCP, Class III

ESTIMATED QUANTITIES
18" RCP Cl. III 20 L.F.
Cement Rubble Masonry 5 C.Y.
Structure Excavation other than at Bridges 6 C.Y.

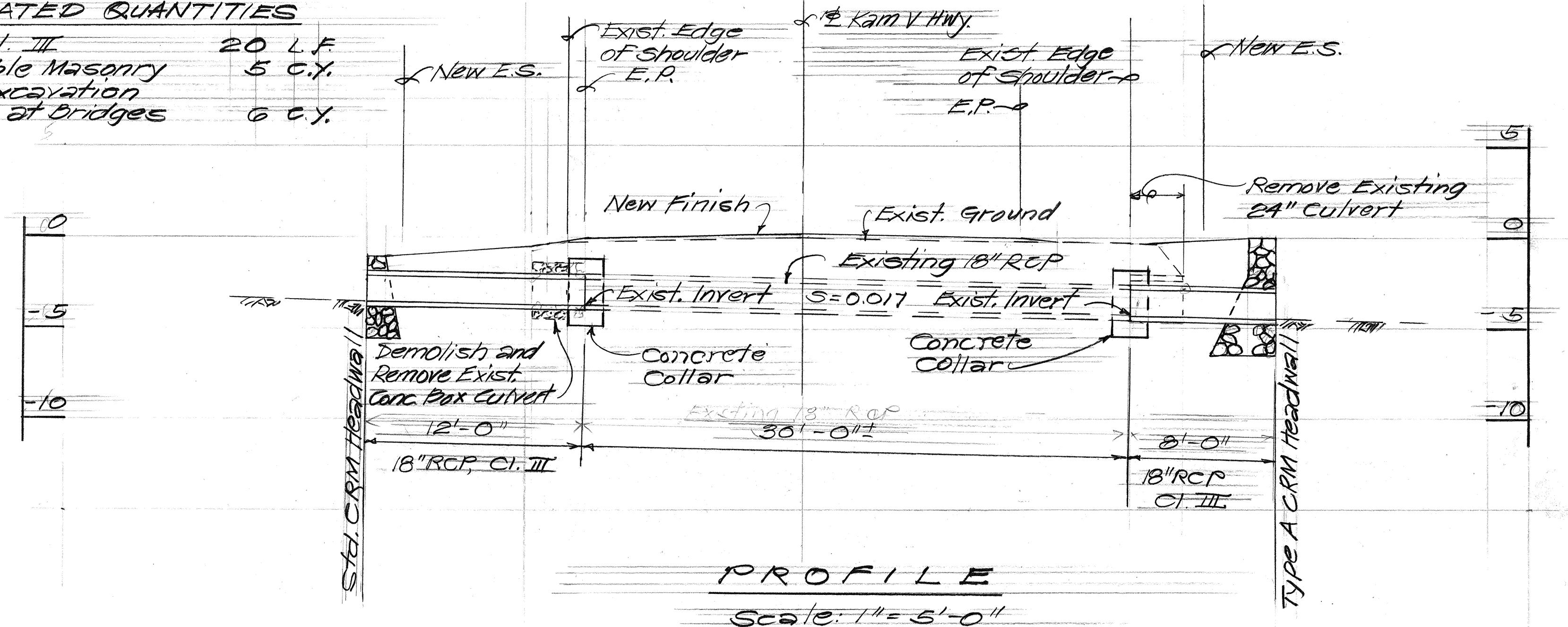


PROFILE
Scale: 1" = 5'-0"

DETAILS OF CULVERT EXTENSION AT ST. STA. 63+30.71 LT. & RT.



PLAN
Scale: 1" = 5'-0"



PROFILE
Scale: 1" = 5'-0"

DETAILS OF CULVERT EXTENSION AT ST. STA. 96+00 LT. & RT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
KAM I HIGHWAY RESURFACING
KAUNAKAKAI TO KAMILILOA BRIDGE
F.A. PROJECT No. RS-0450(4)
Scale: As Noted Date: May, 1987
SHEET No. H2 OF 2 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	