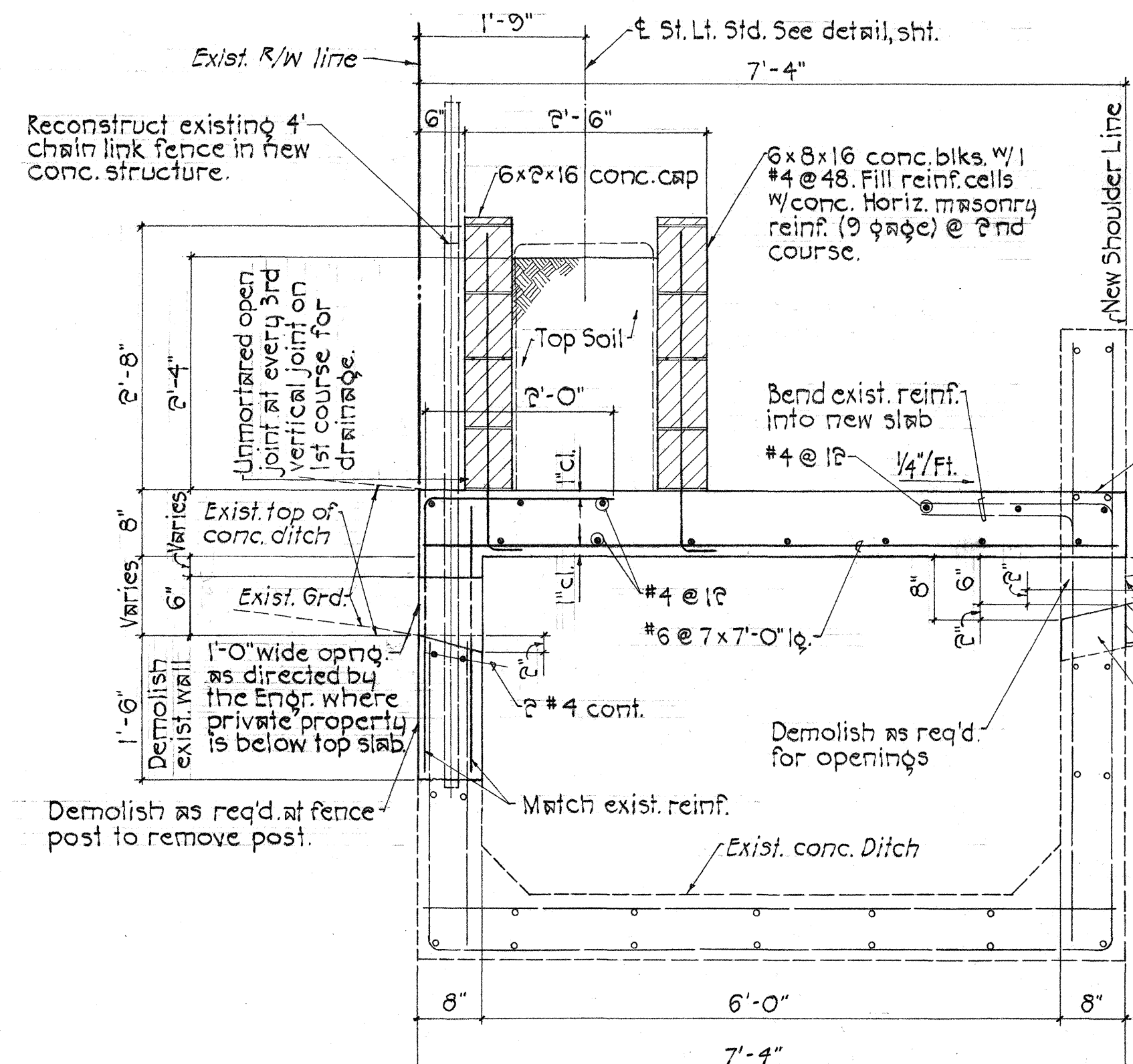


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72B-03-68 UNIT II	1968	33	71

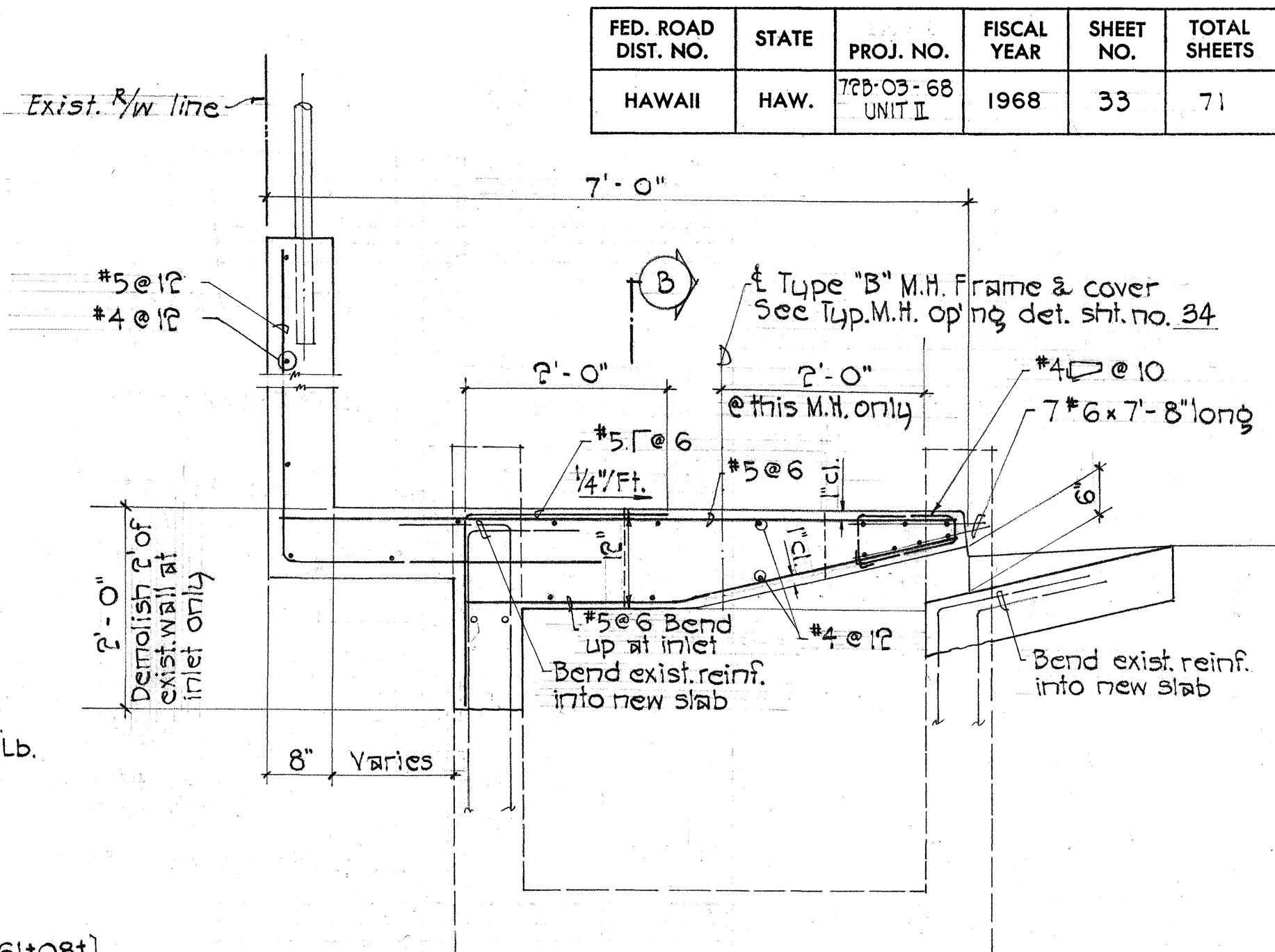
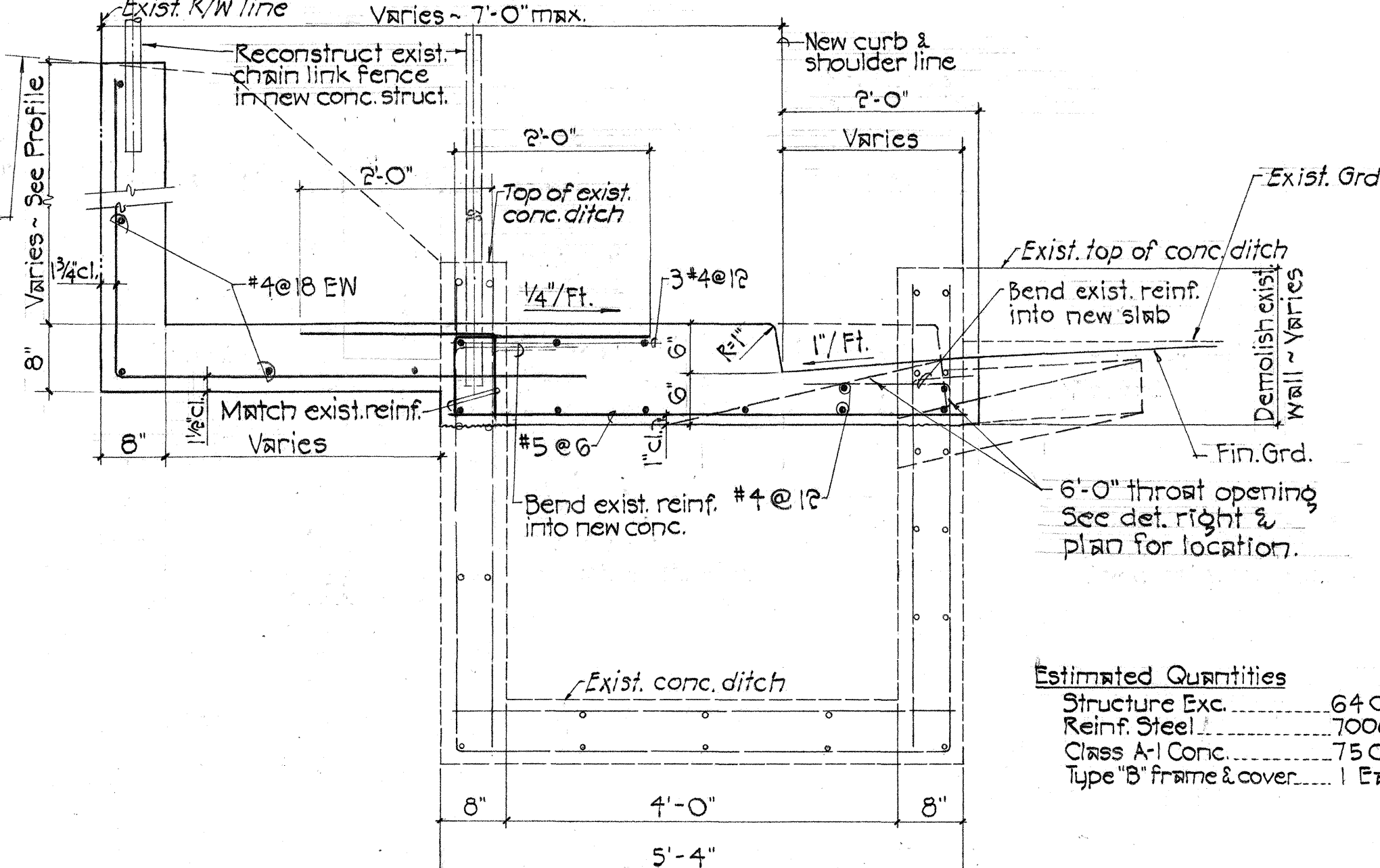


NOTE: Provide joints w/1/2" premolded joint filler in 2'x4' key at spacing of existing joints. For joints in hollow tile wall, the filler shall be firmly secured to one side. Joint filler shall be incidental to Cl. A-1 conc.

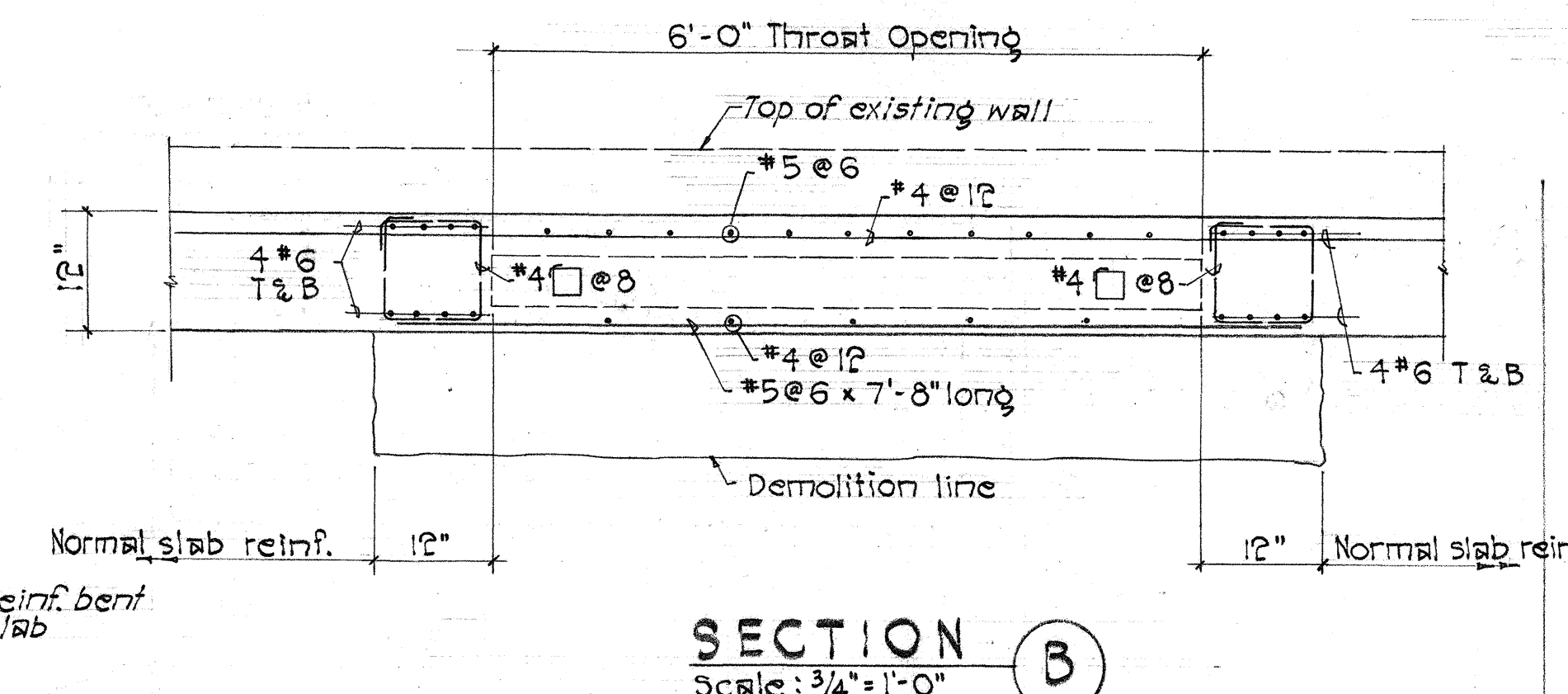
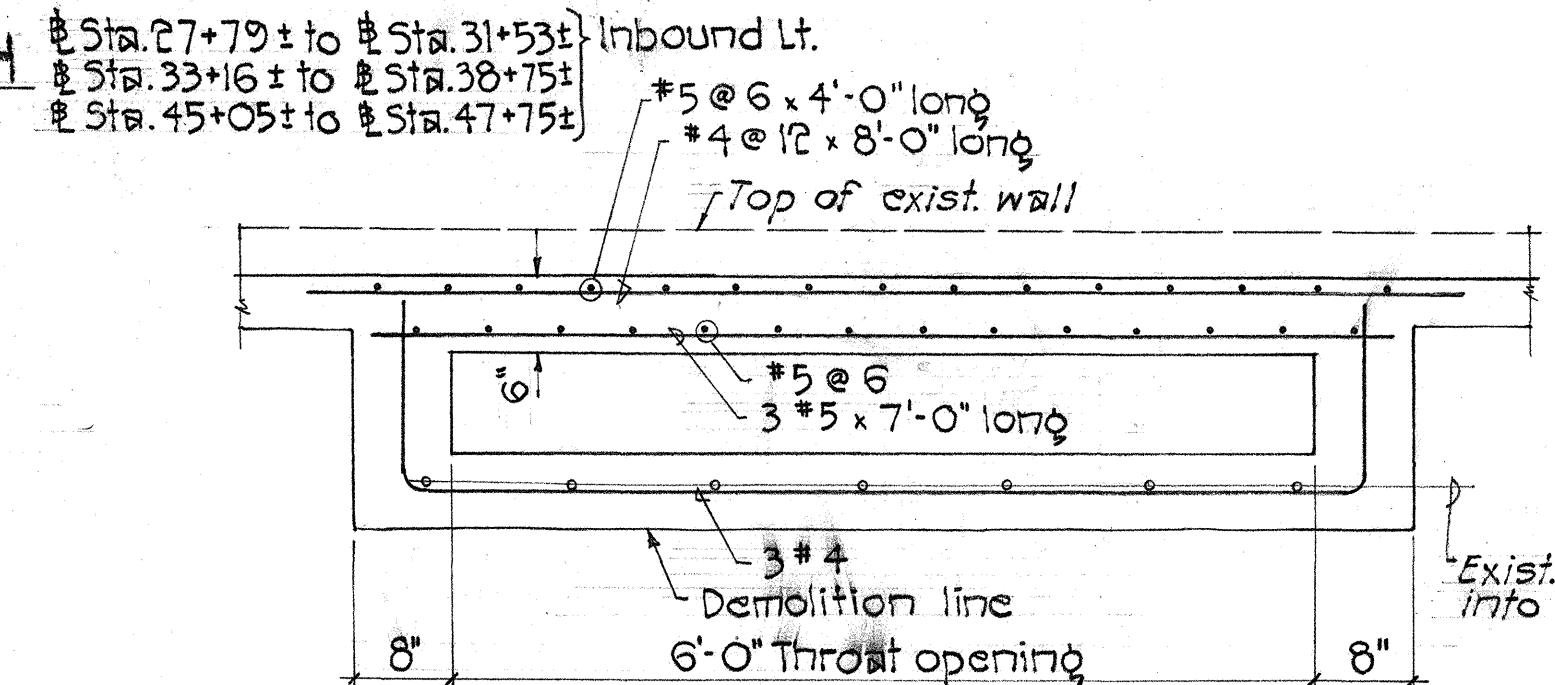
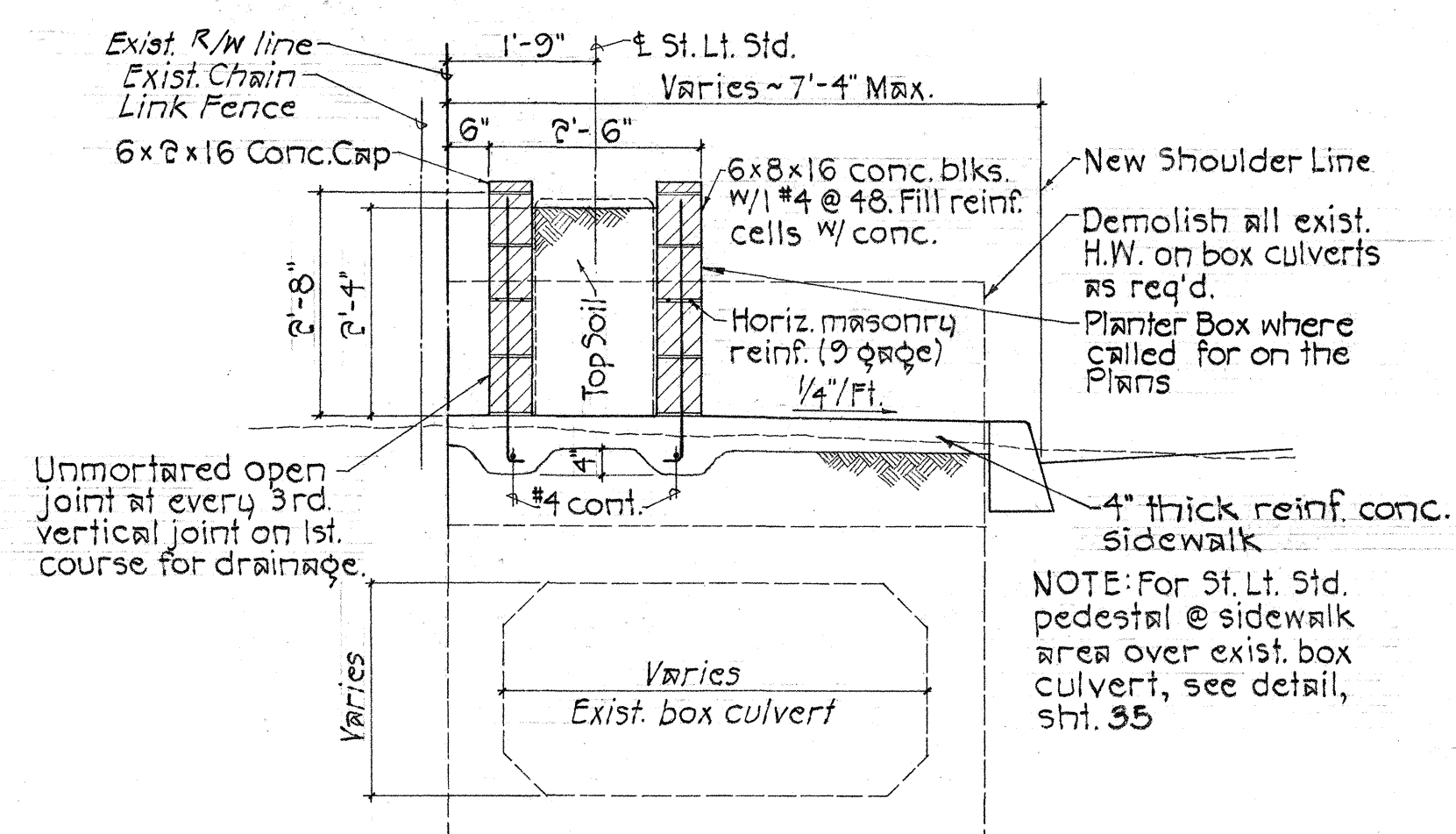
All hollow tile walls shall be of running bond construction.

Estimated Quantities

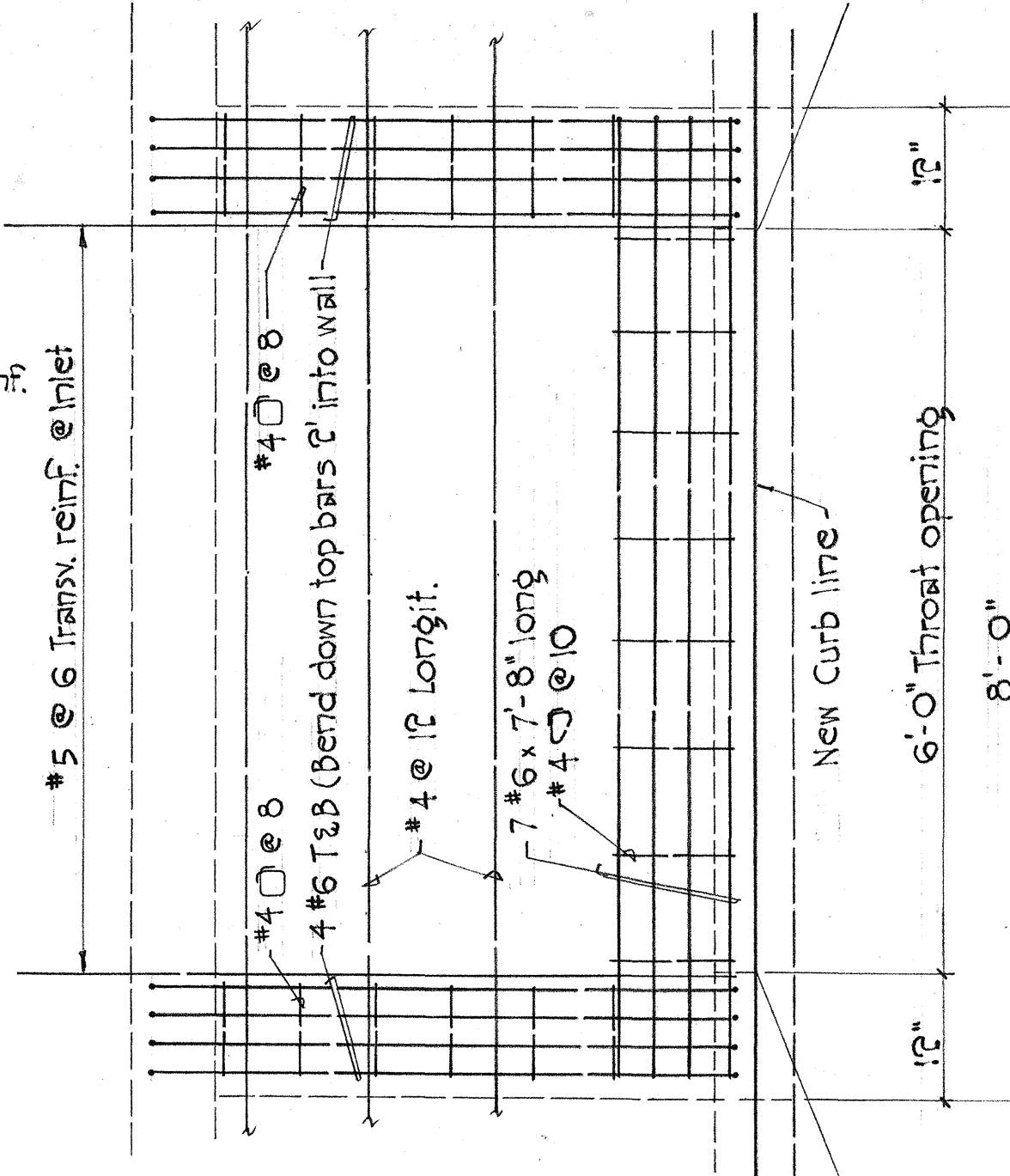
Structure Exc.	64 CY.
Reinf. Steel	36,600 Lb.
Class A-1 Conc.	276 CY.
Type 'B' frame & cover	6 Ea.



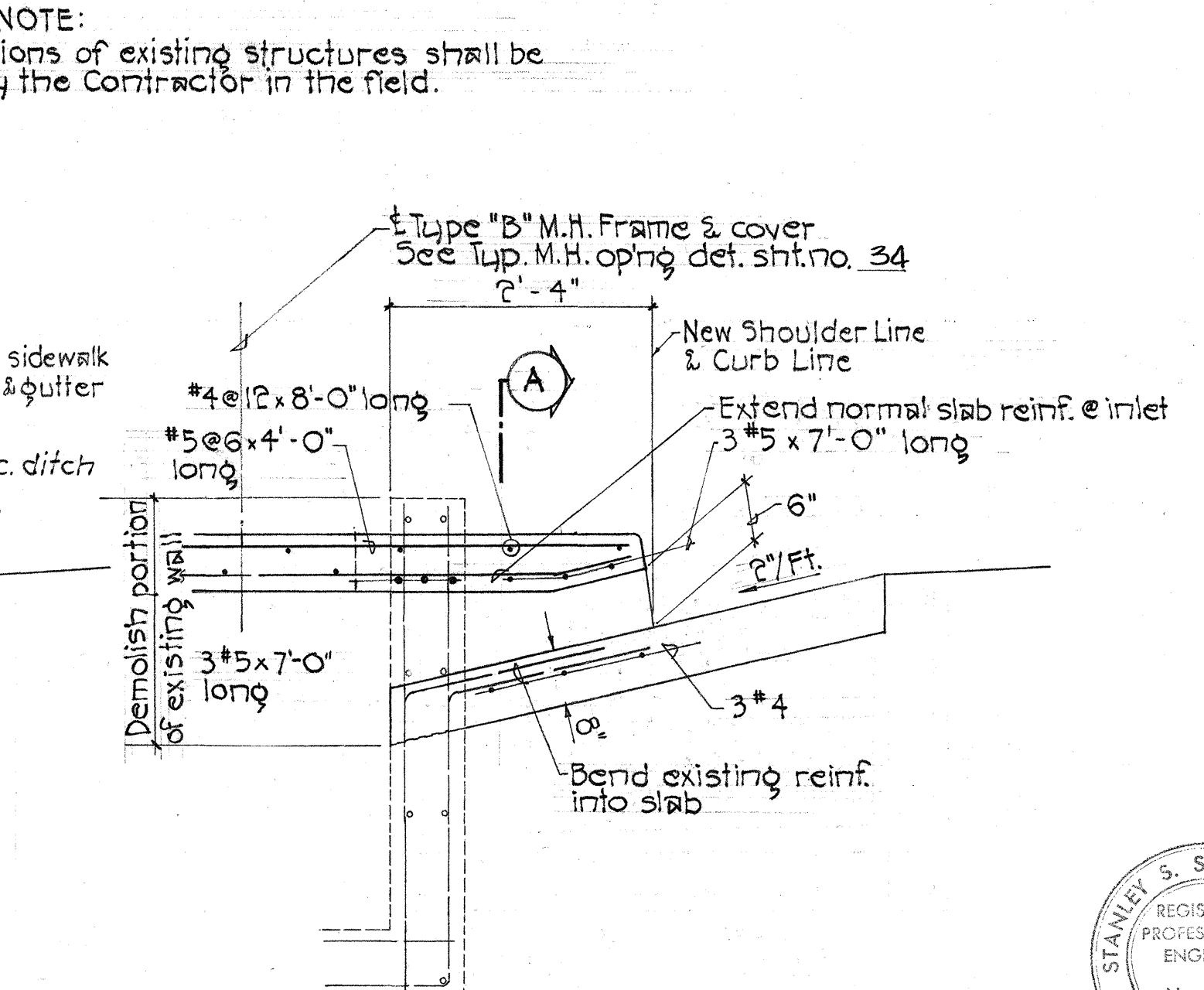
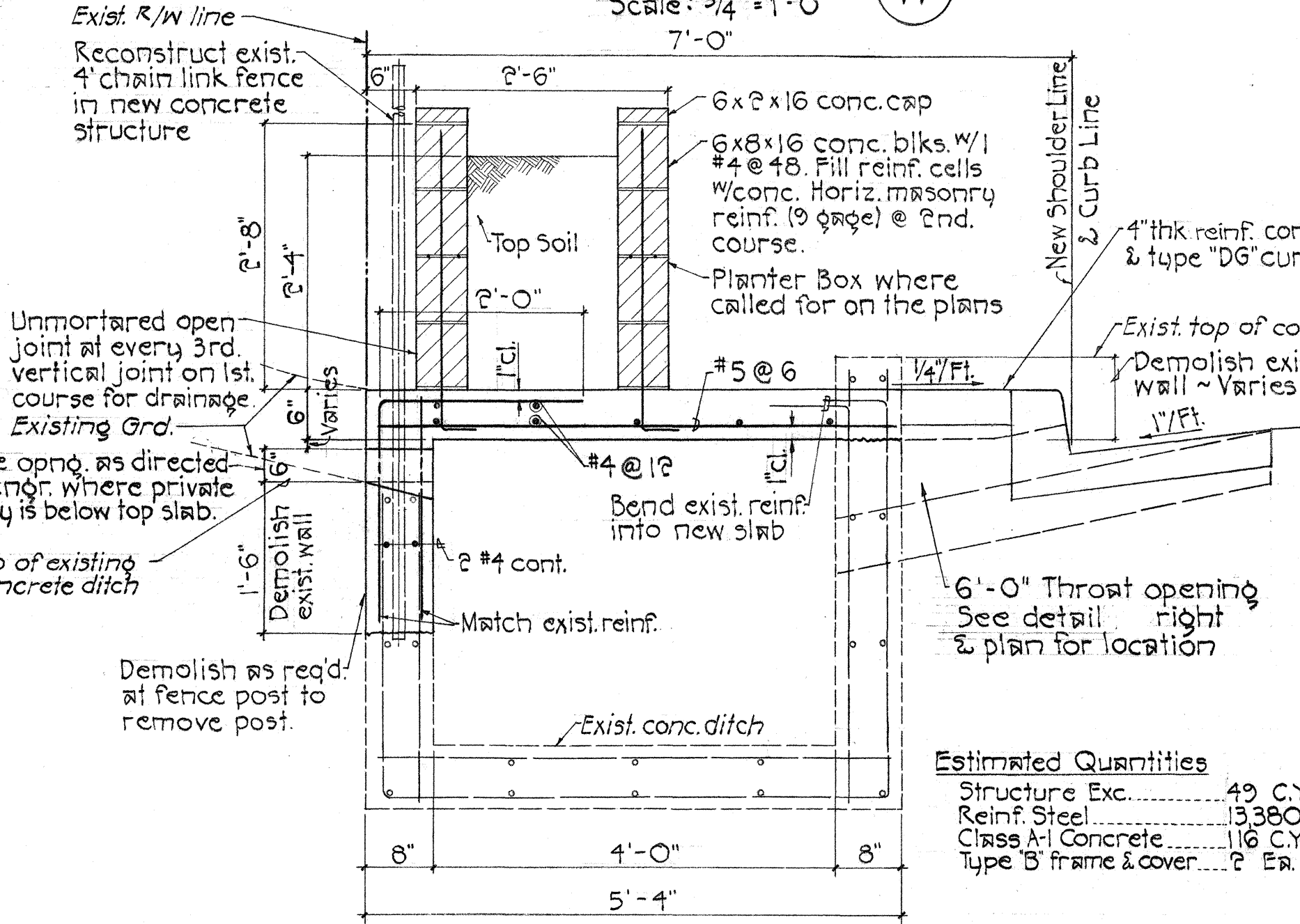
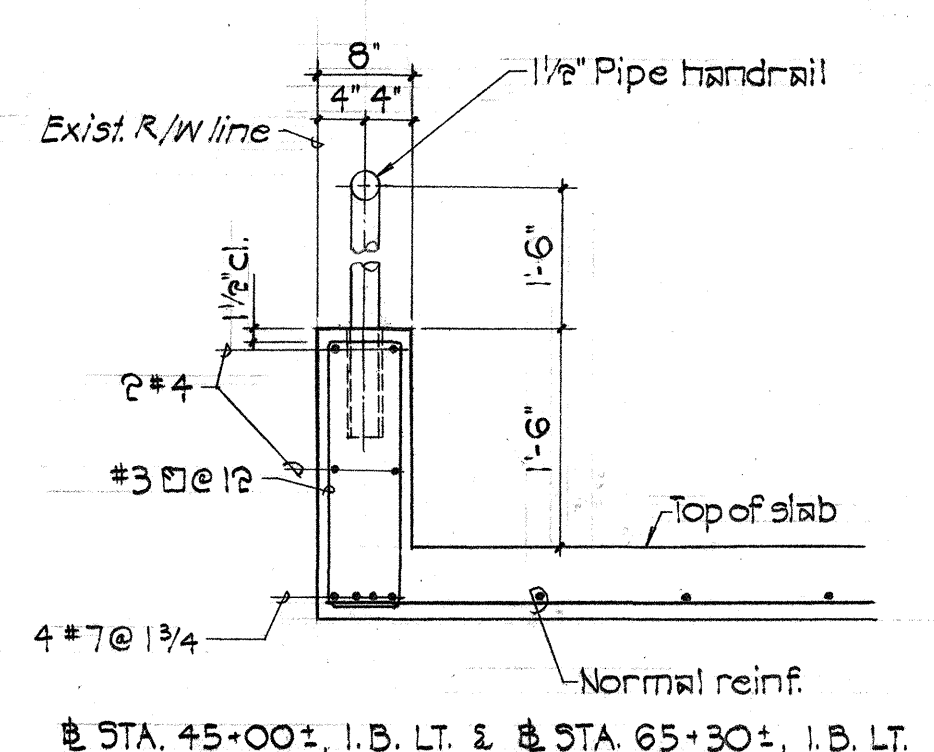
TYP. SECTION - NEW SLAB OVER EXIST. 6' CONC. DITCH
Scale: 3/4" = 1'-0"



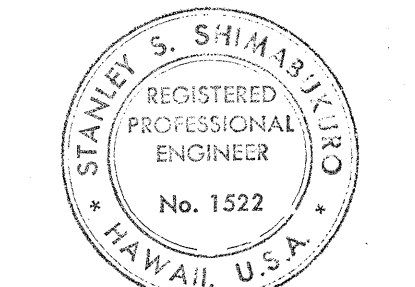
INLET DETAIL
Scale: 3/4" = 1'-0"



TYPICAL SECTION
PLANTER OVER EXIST. BOX CULVERT
Scale: 1/2" = 1'-0"



TYPICAL SECTION - NEW SLAB OVER EXIST. 4' CONC. DITCH
Scale: 3/4" = 1'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Stanley S. Shimada

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY AND DRAINAGE DETAILS

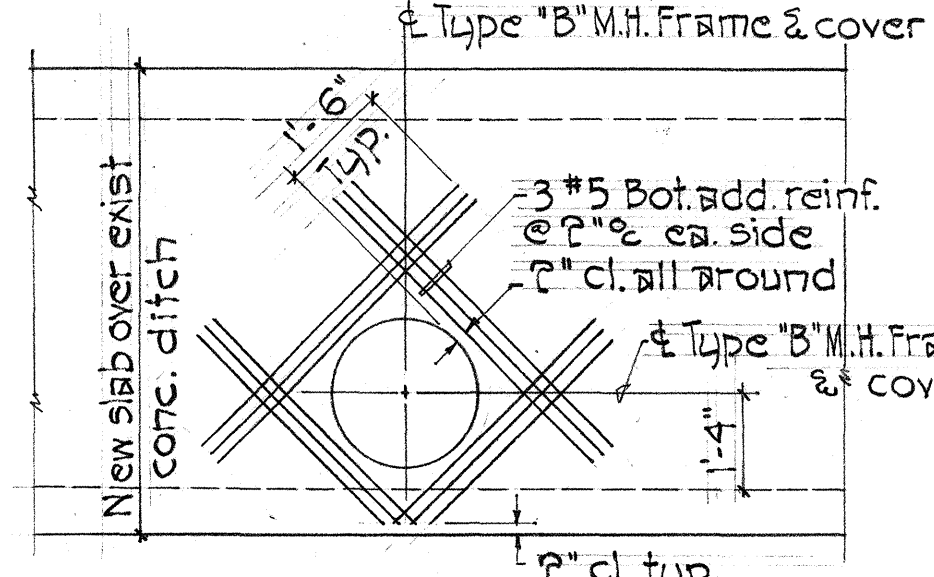
KALANIANA'OLE HIGHWAY WIDENING
PROJECT NO. 72 B-03-68
UNIT II

SHEET No. 1 OF 4 SHEETS

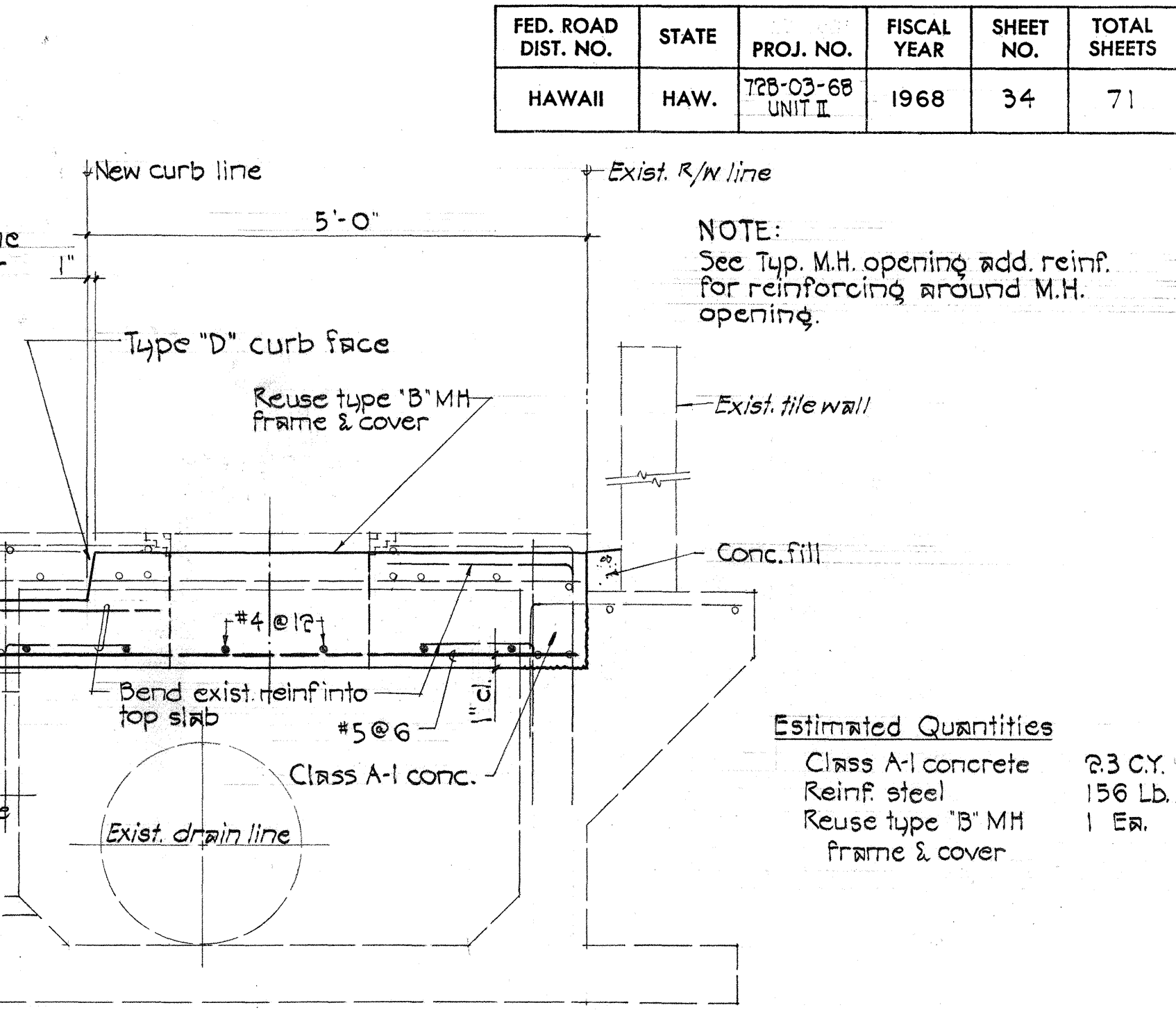
DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
CHECKED BY	.....
NOTED BY	.....
QUANTITIES BY	.....
CHECKED BY	.....
NO.	.....

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72B-03-68 UNIT II	1968	34	71

GENERAL NOTE:
All dimensions of existing structures shall be verified by the Contractor in the field.



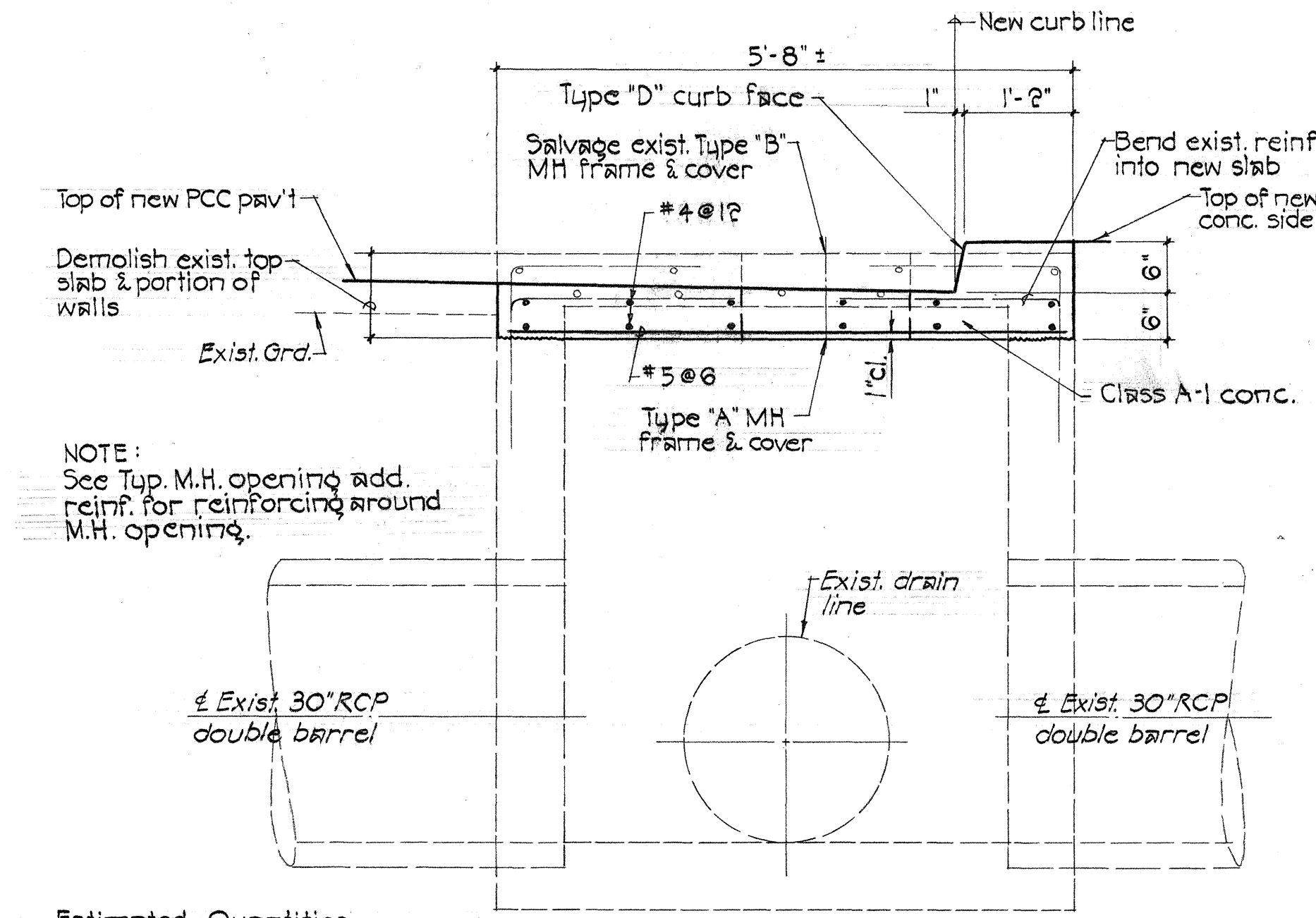
TYP. M.H. OPENING ADD. REINF.
Scale: 3/8" = 1'-0"



NOTE:
See Typ. M.H. opening add. reinf. for reinforcing around M.H. opening.

Estimated Quantities
Class A-1 concrete 23 C.Y.
Reinf. steel 156 Lb.
Reuse type 'B' M.H. frame & cover 1 Ea.

STATION 74+50 ±, O.B. RT.
ADJUST EXIST. D.M.H.
Scale: 3/4" = 1'-0"



NOTE:
See Typ. M.H. opening add. reinf. for reinforcing around M.H. opening.

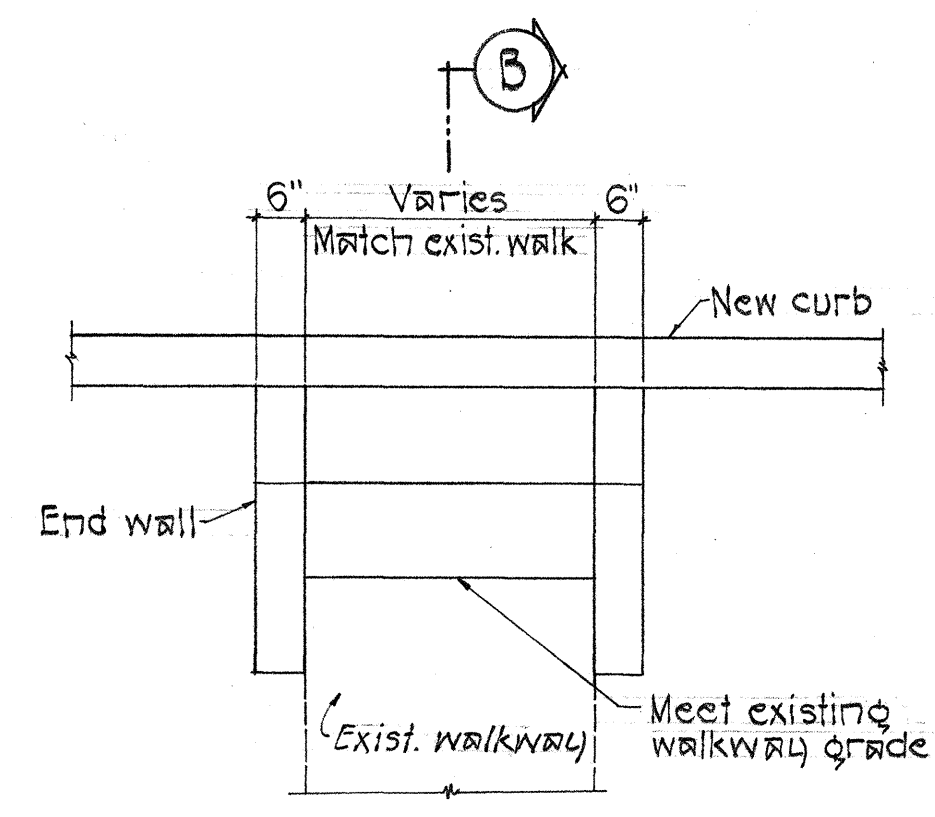
Estimated Quantities
Class A-1 conc. 1.0 C.Y.
Reinf. steel 148 Lb.
Type 'A' frame & cover 1 Ea.

STATION 64+43 ±, O.B. RT.
ADJUST EXIST. D.M.H.
Scale: 3/4" = 1'-0"

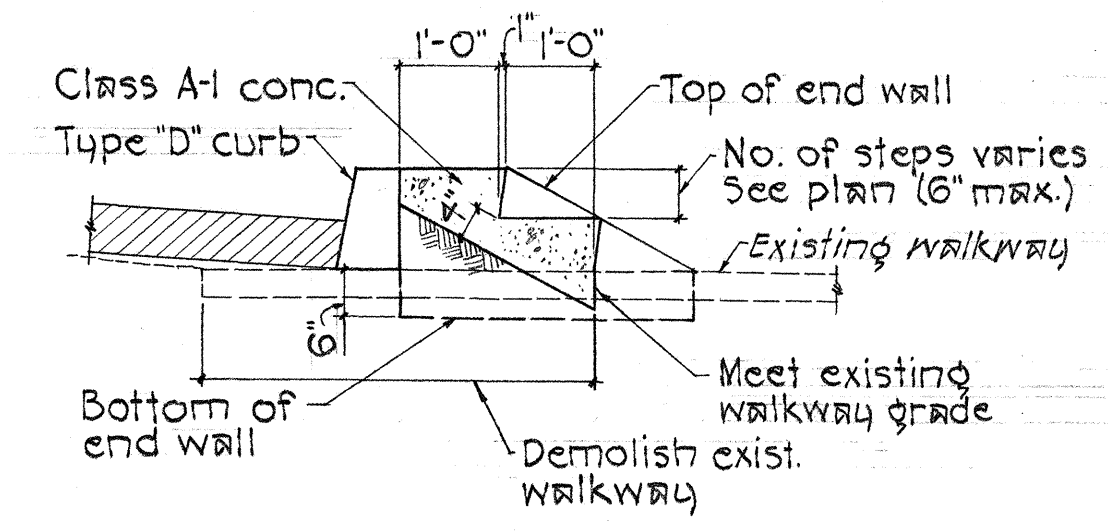
NOTE:
1. Damage to existing tile wall resulting from the operation of the Contractor shall be repaired and paid for by the Contractor.
2. Provide: 1/2" premolded joint filler in 2"x4" key at spacing of exist. expansion joints; 1-layer of 55# comp. roofing at contraction joint firmly secured to one side.

TYP. SECTION- NEW SLAB OVER EXIST. 5' CONC. DITCH
Scale: 1/8" = 1'-0"

Estimated Quantities
Class A-1 conc. 145 C.Y.
Reinf. steel 18,230 Lb.
Type 'B' M.H. frame & cover 2 Ea.

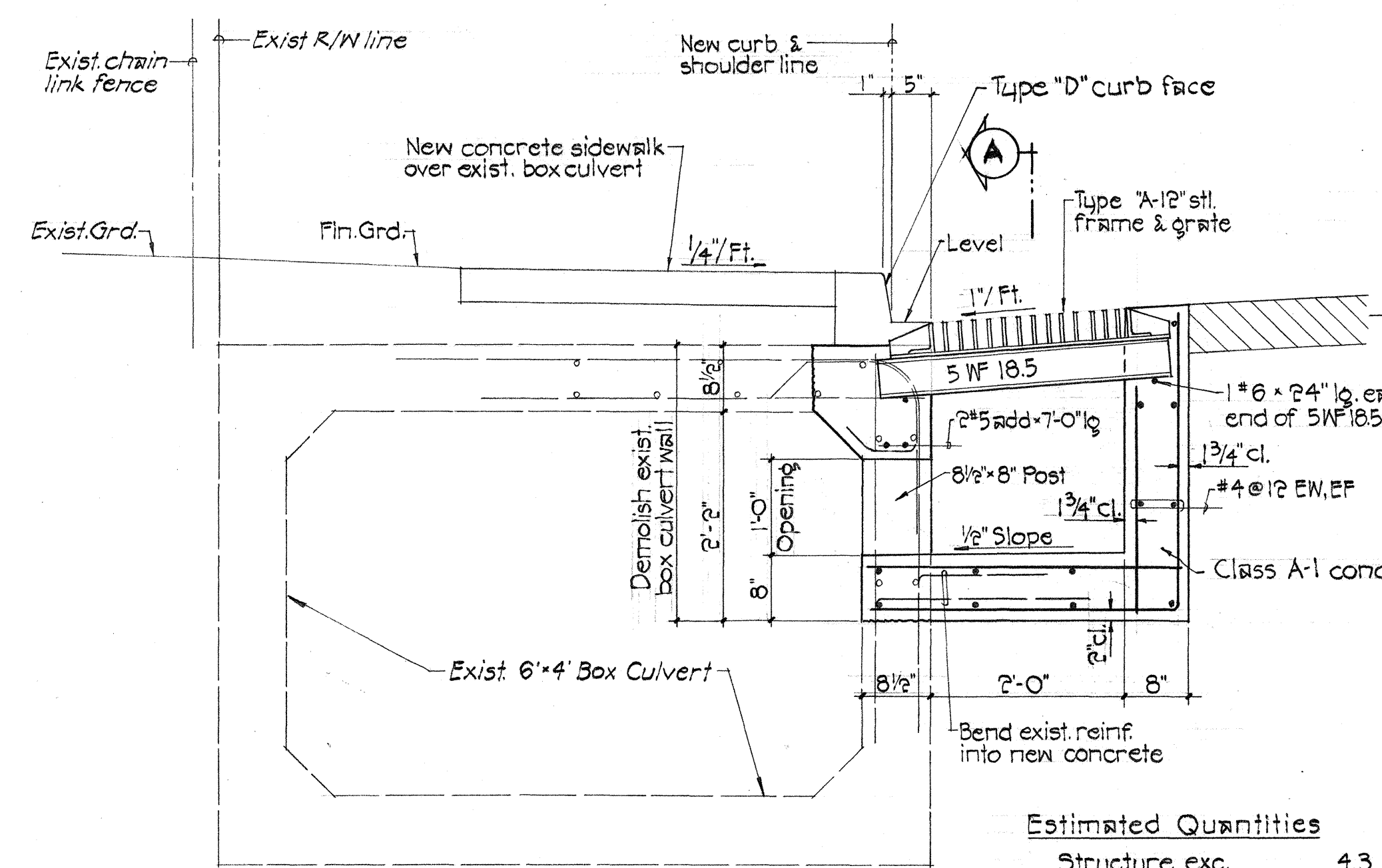


PLAN - WALKWAY ADJUSTMENT
Scale: 1/2" = 1'-0"



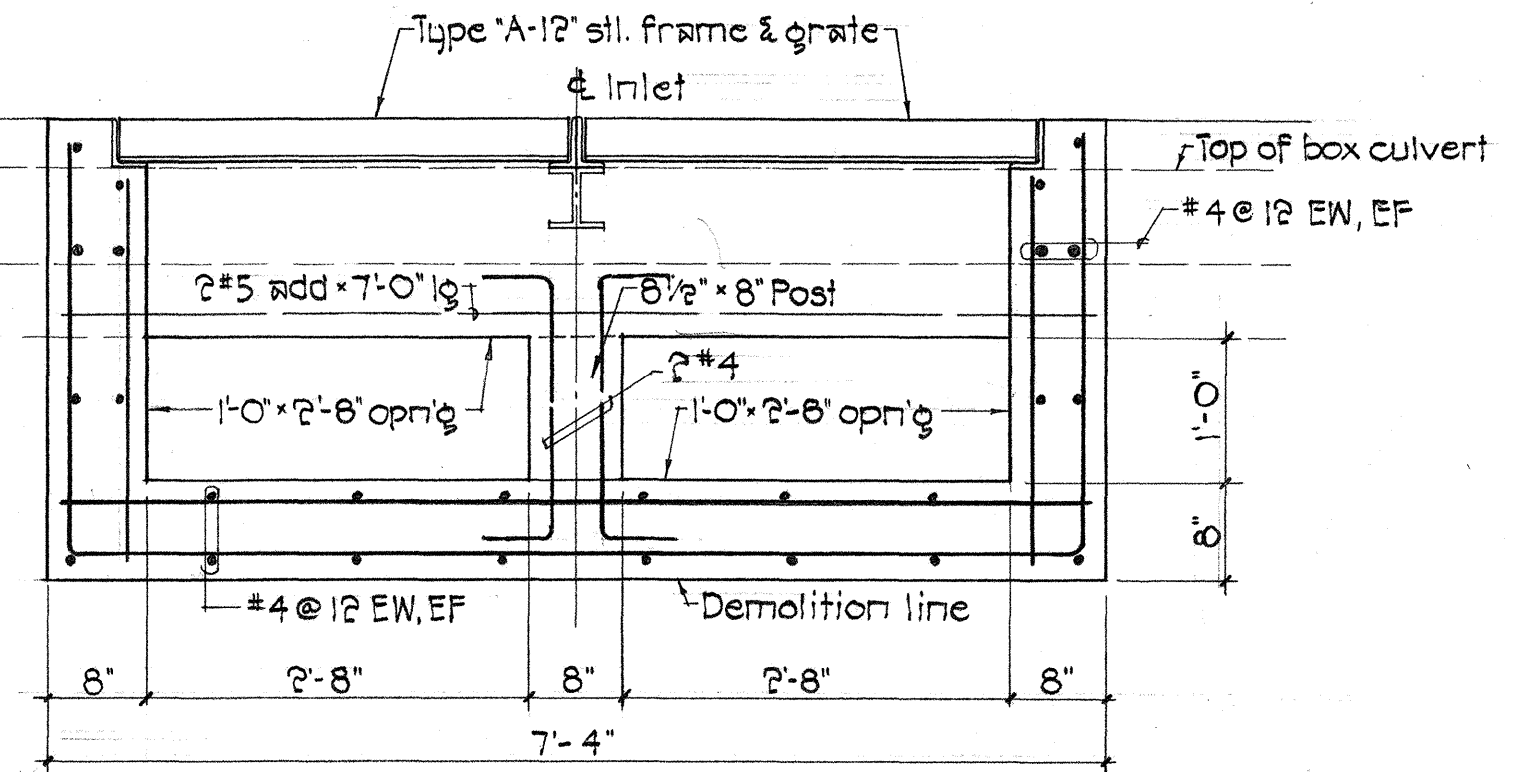
Note: Concrete paid for as Class A-1 concrete other than in bridges.

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

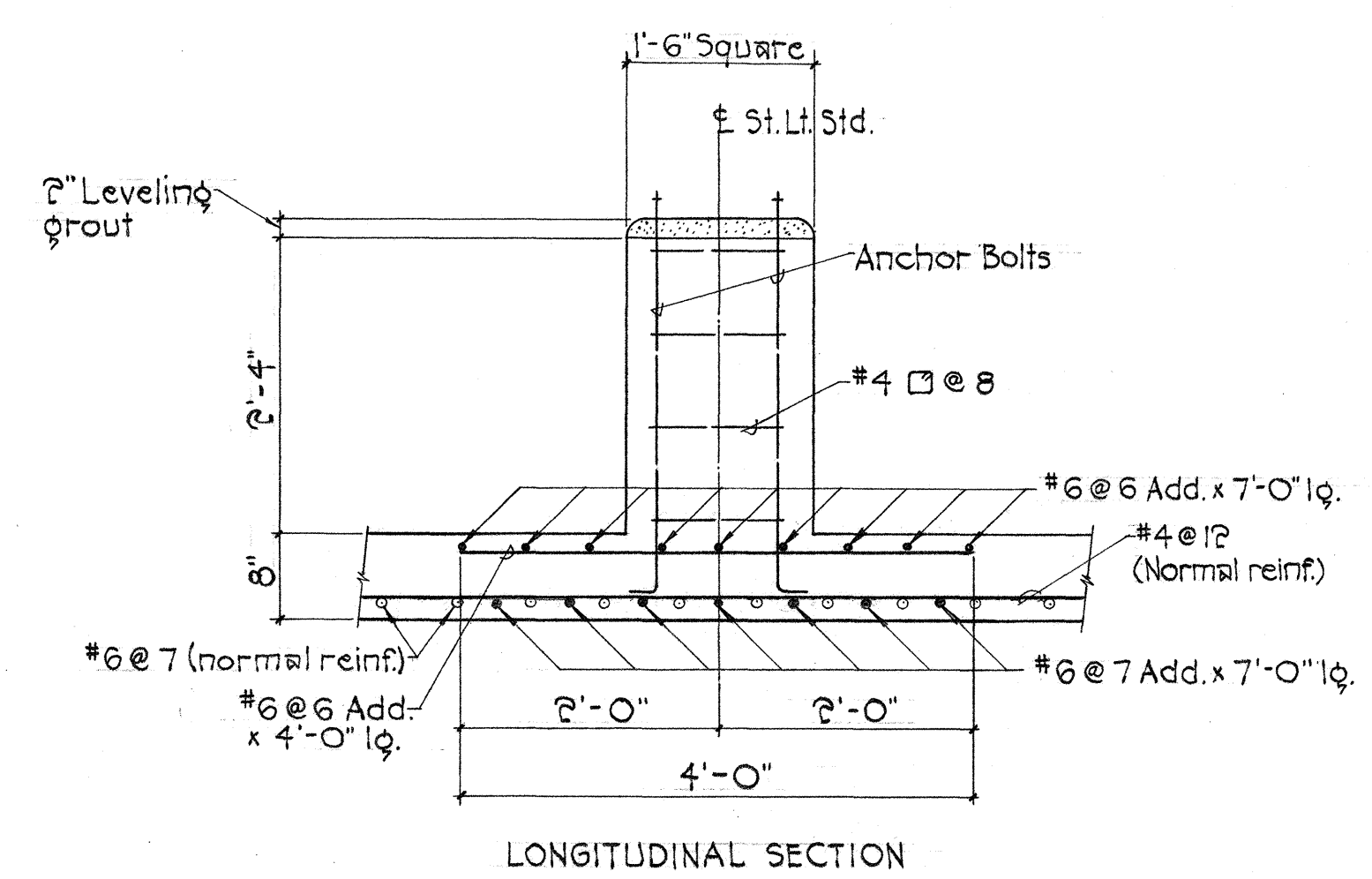


Estimated Quantities
Structure exc. 4.3 C.Y.
Class A-1 concrete 1.2 C.Y.
Reinf. steel 181 Lb.
Type A-12 stl. frame & grate 1 Ea.

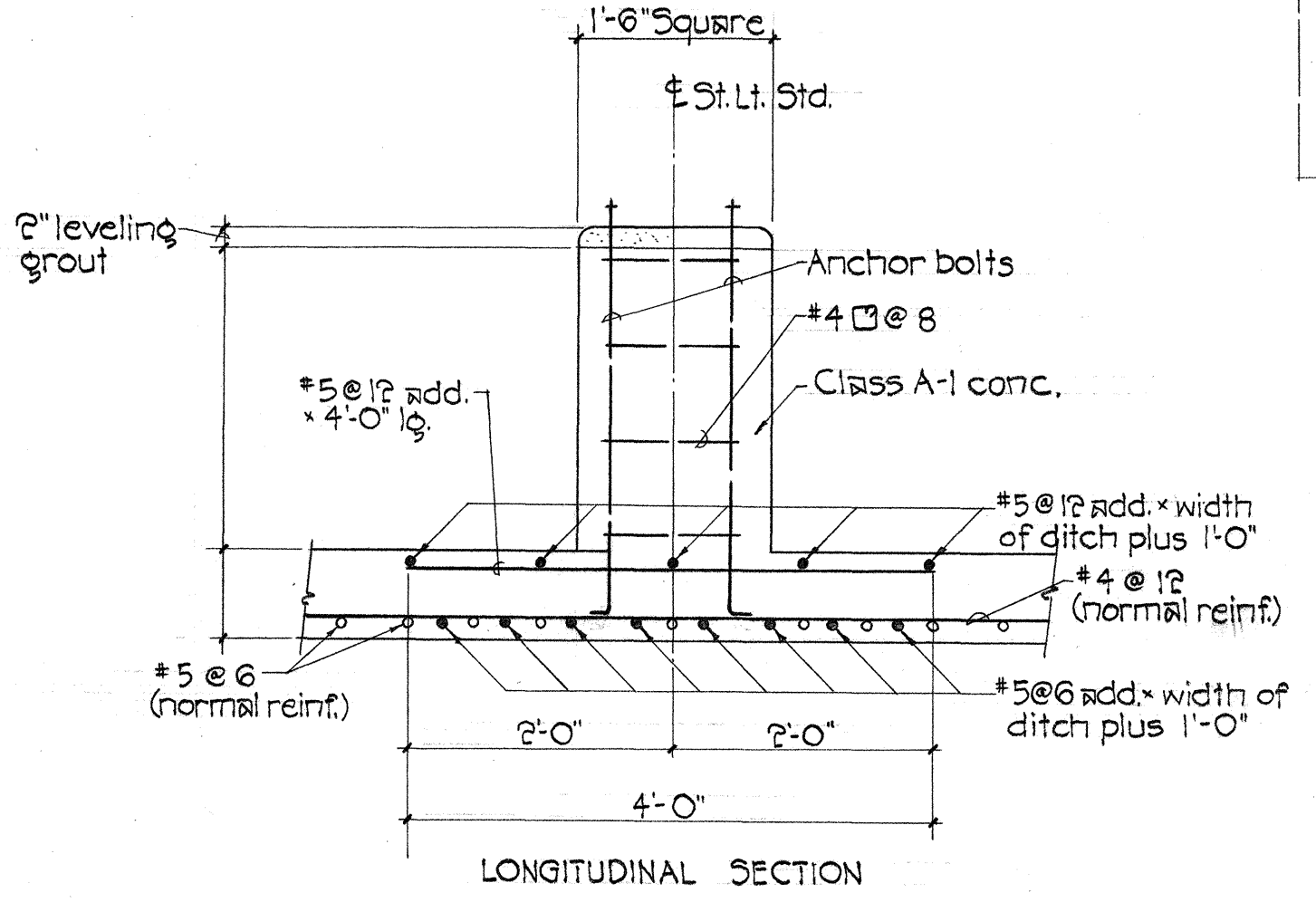
STATION 39+73 ±, I.B. LT.
INLET W/ GRATING
Scale: 3/4" = 1'-0"



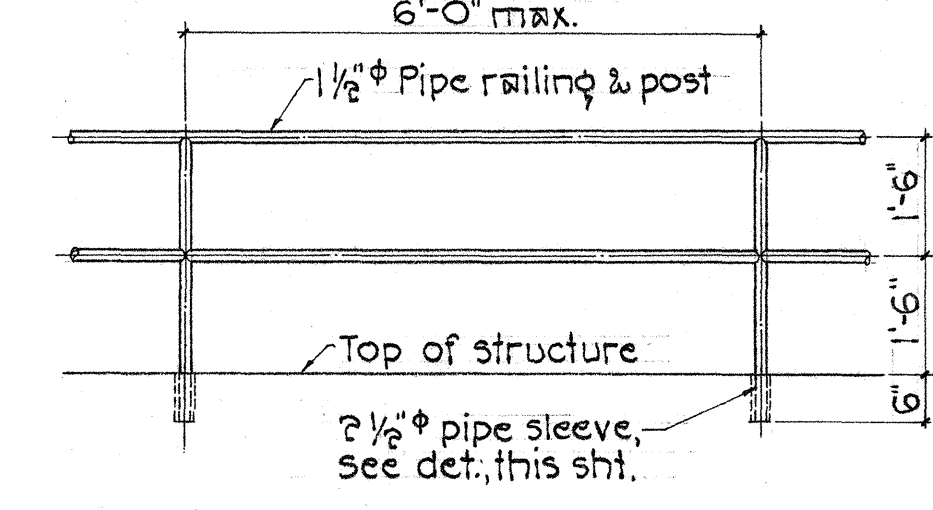
SECTION A
Scale: 3/4" = 1'-0"



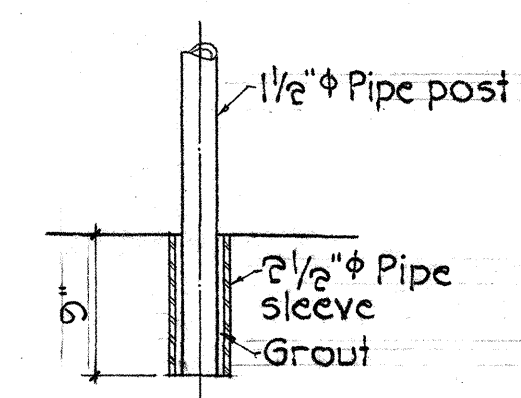
ADD. REINF. AT ST. LT. STD. OVER 6'-0" WIDE DITCH
Scale: 3/4" = 1'-0"



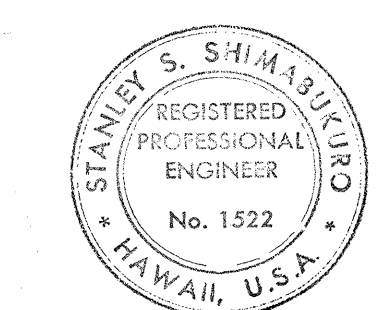
ADD. REINF. AT ST. LT. STD. OVER 4'-0" & 5'-0" WIDE DITCH
Scale: 3/4" = 1'-0"



PIPE RAILING & POST DET.
Scale: 1/2" = 1'-0"



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



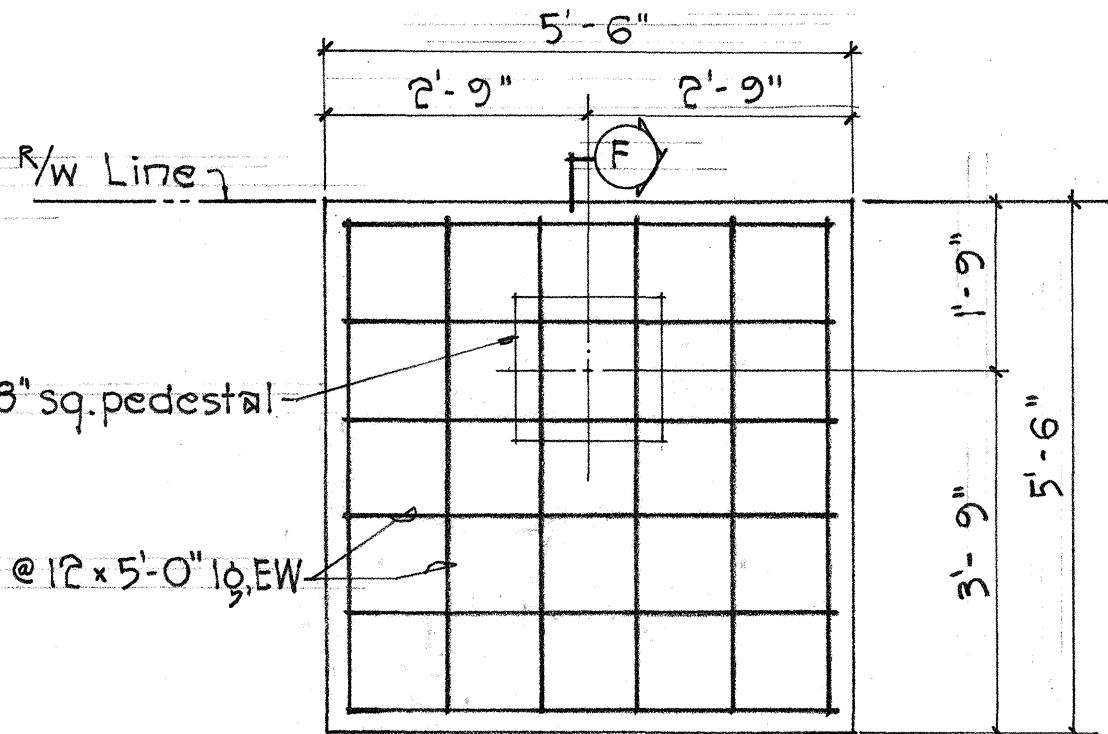
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Stanley S. Shimabuzuru

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY AND DRAINAGE DETAILS
KALANIANA'OLE HIGHWAY WIDENING
PROJECT NO. 72B-03-68
UNIT II
SHEET No. 34 OF 4 SHEETS

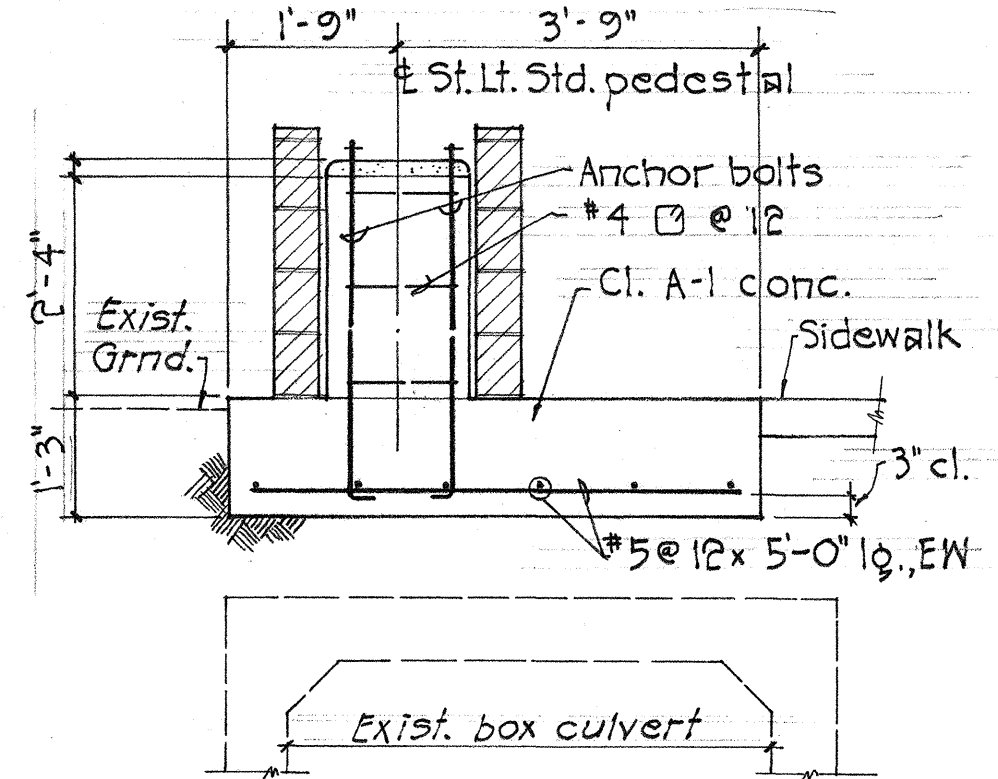
SURVEY PLATTED BY	DATE
DRAWN BY	
CHECKED BY	
QUANTITIES BY	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72B-03-68 UNIT II	1968	35	71

GENERAL NOTE:
All dimensions of existing structures shall be verified by the Contractor in the field.

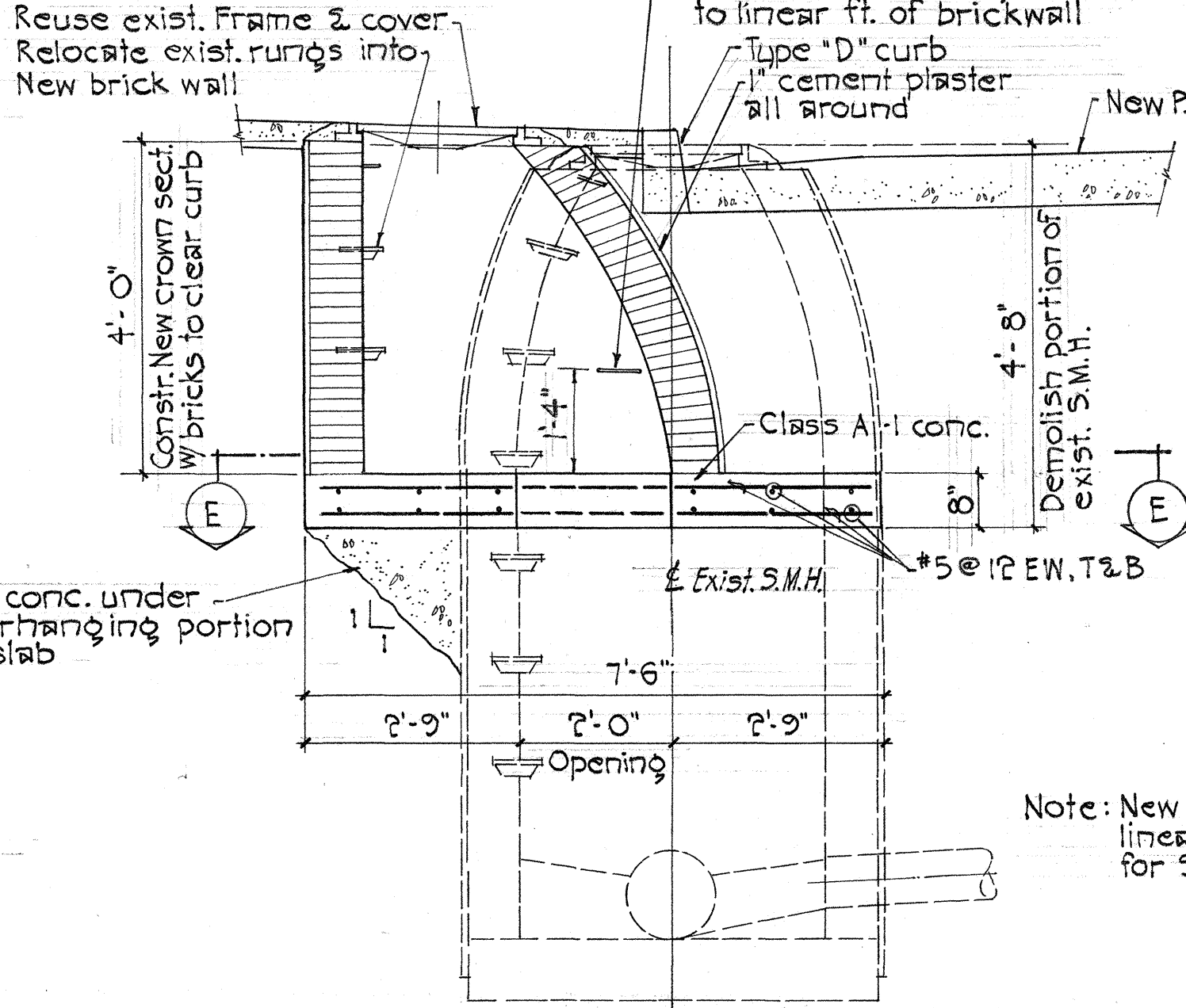


PLAN - ST. LIGHT STANDARD OVER EXIST. BOX CULVERT Scale: 1/2" = 1'-0"

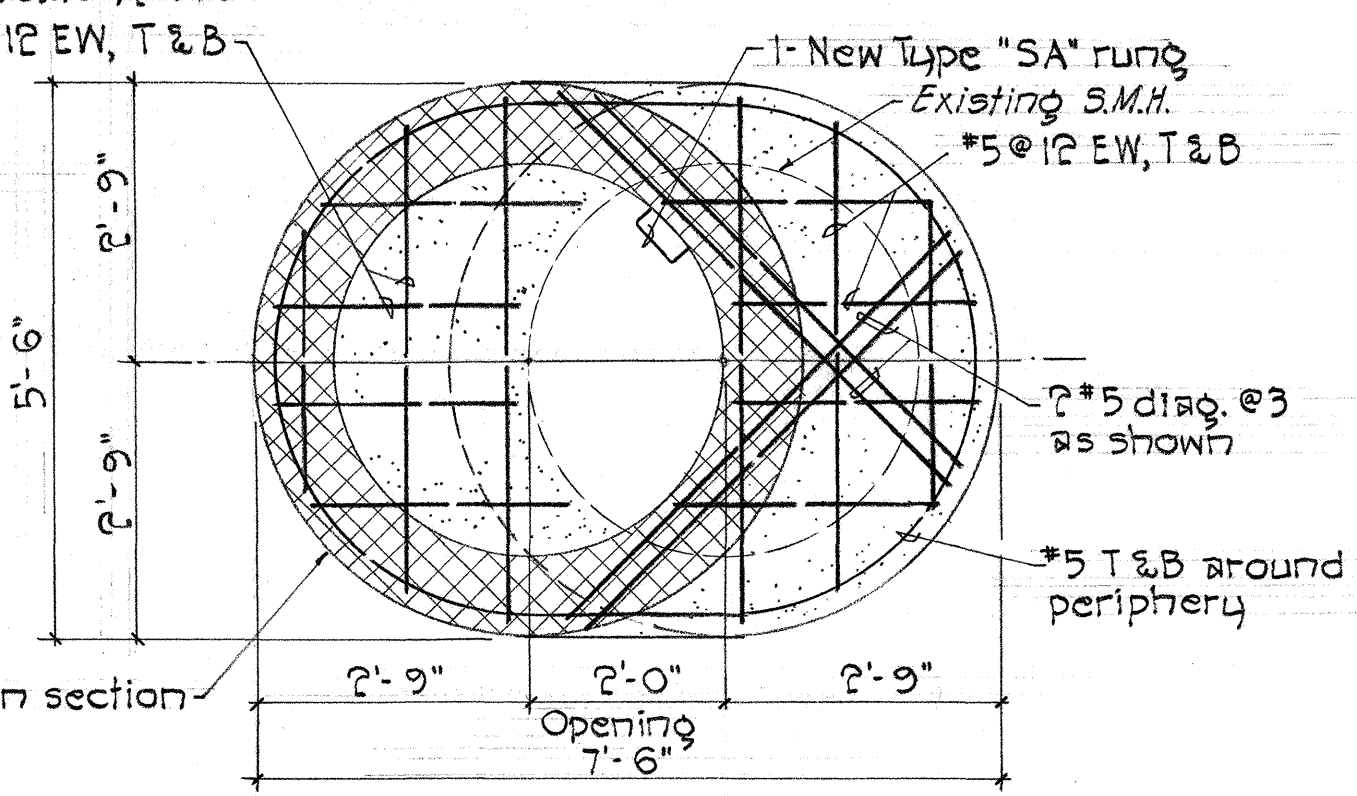


SECTION F Scale: 1/2" = 1'-0"

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

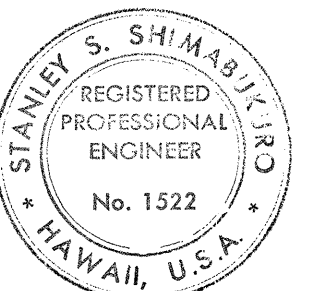


SECTION - RECONSTRUCTED S.M.H. AT STA. 68+25 & 70+15 Scale: 1/2" = 1'-0"



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

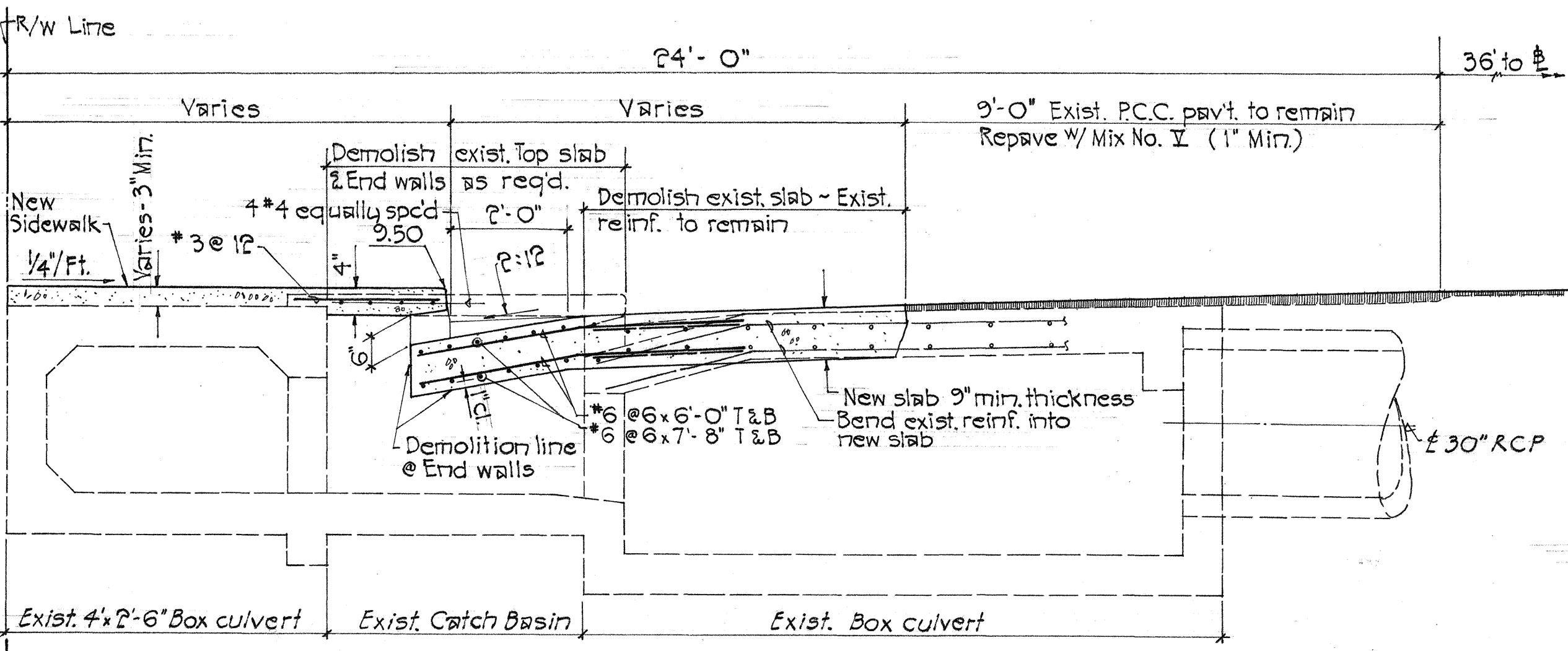
APPROVED: *[Signature]* 9/16/68
DIRECTOR, DIVISION OF SEWERS DATE



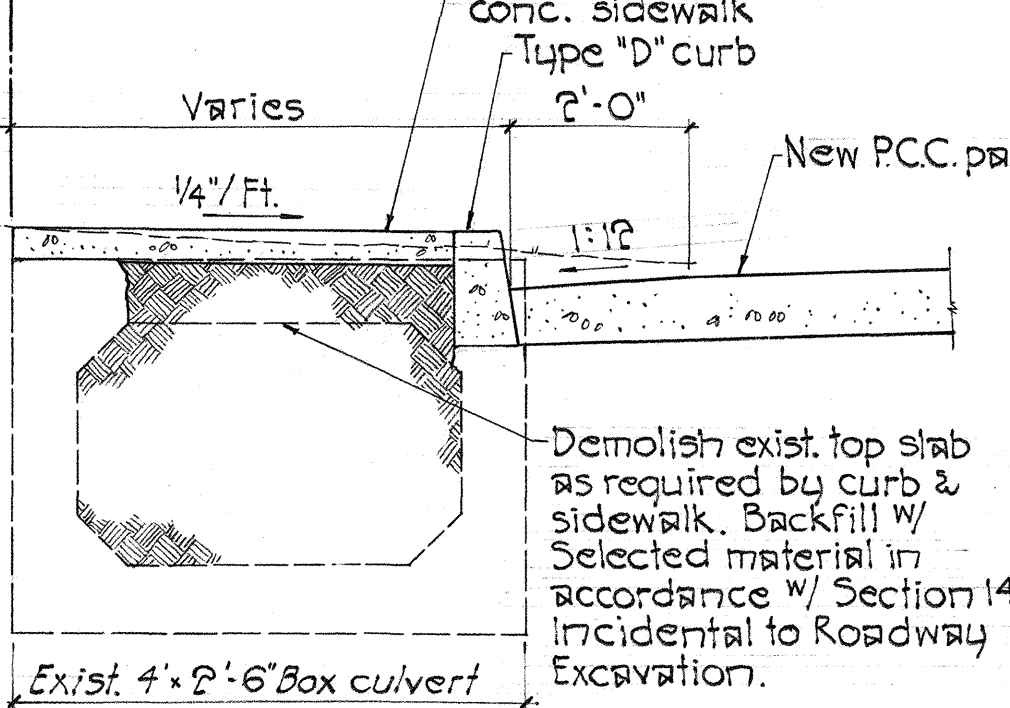
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Stanley S. Shimabukuro

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND SEWER DETAILS
KALANIANA'OLE HIGHWAY WIDENING
PROJECT NO. 72B-03-68
UNIT II



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



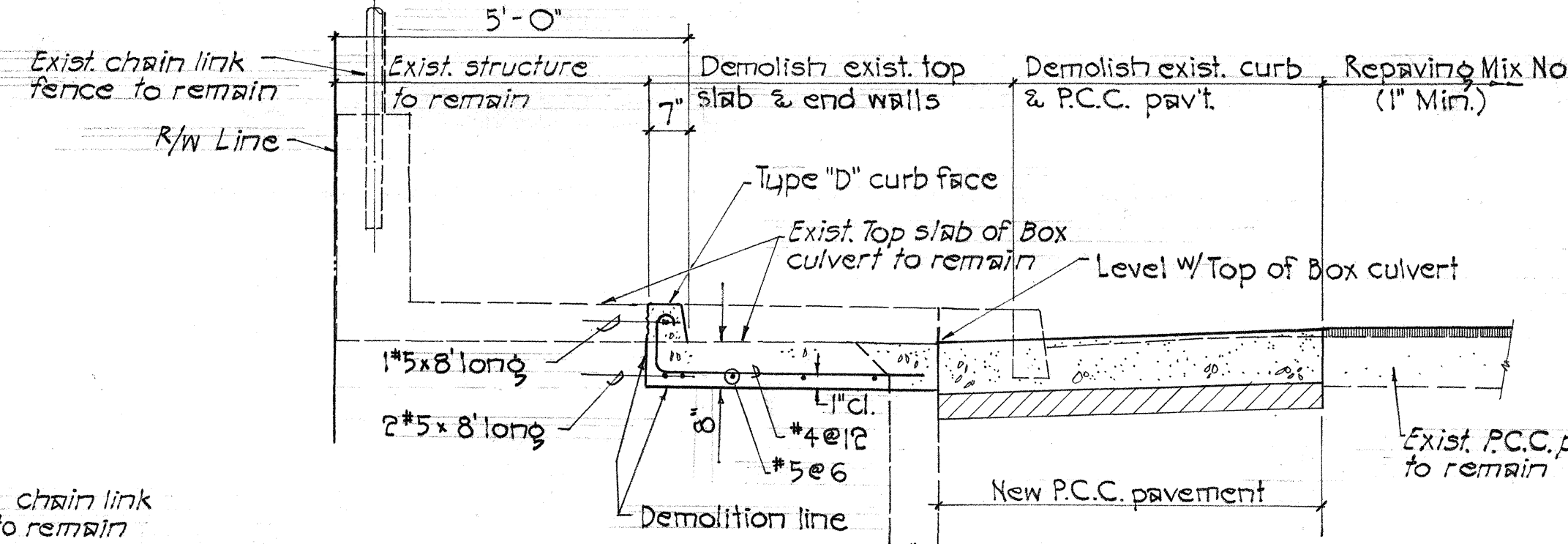
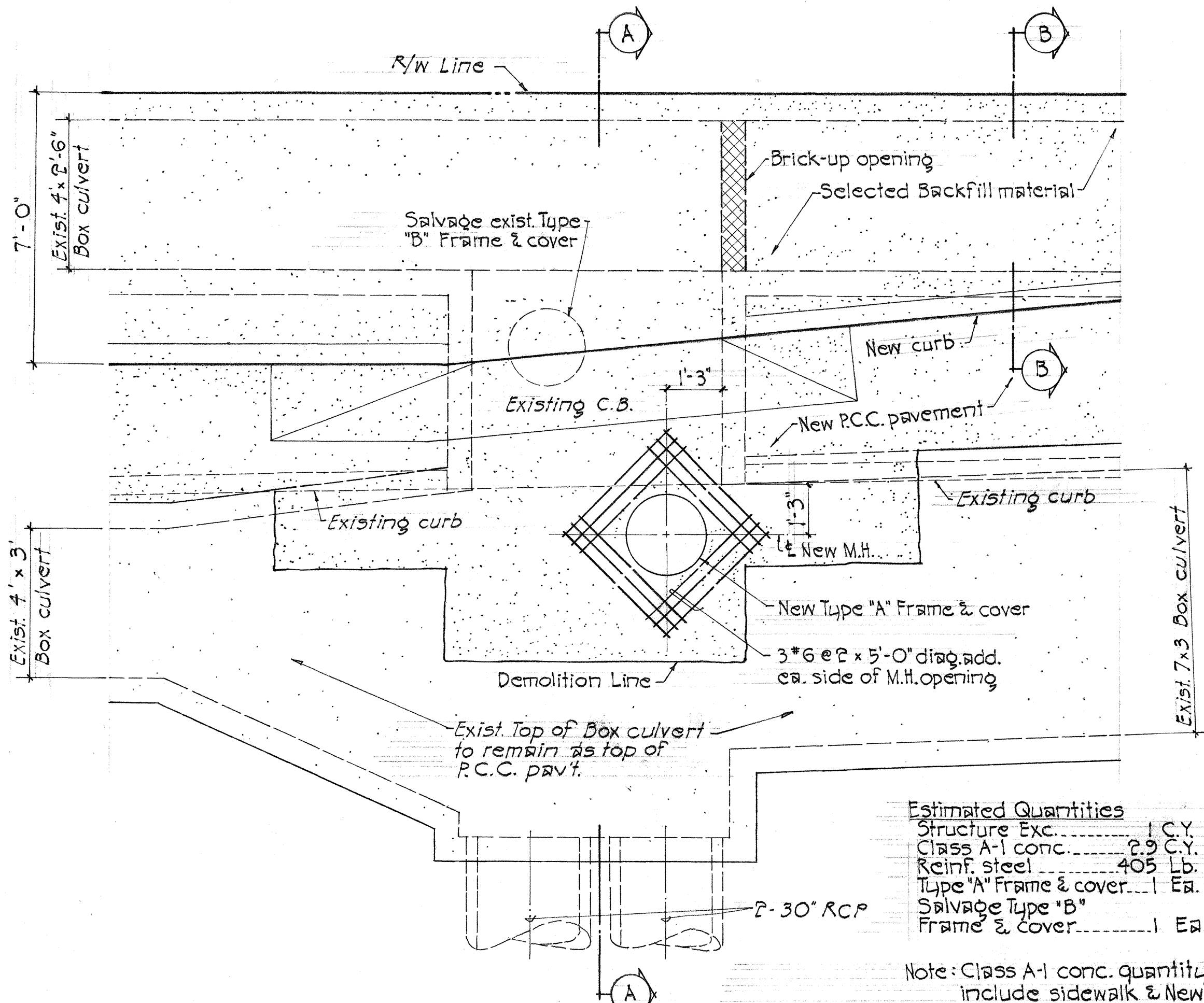
SECTION B-B Scale: 1/2" = 1'-0"

Estimated Quantities

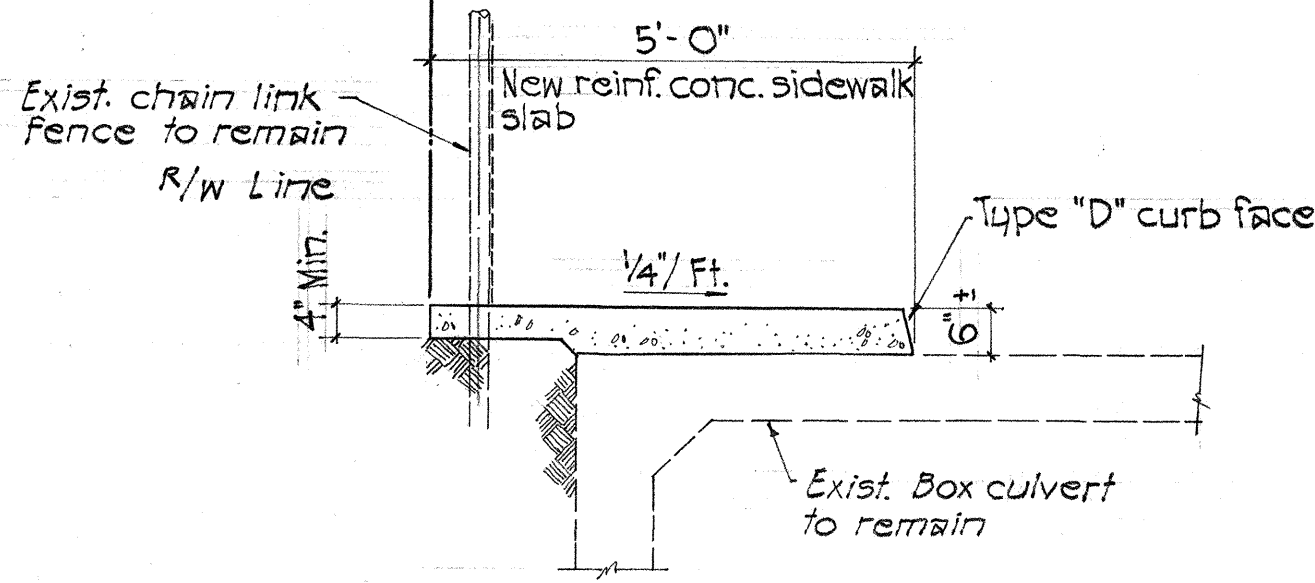
Structure Exc.	1 C.Y.
Class A-1 conc.	2.9 C.Y.
Reinf. steel	405 Lb.
Type "A" Frame & cover	1 Ea.
Salvage Type "B" Frame & cover	1 Ea.

Note: Class A-1 conc. quantity does not include sidewalk & New P.C.C. pavt.

PLAN - ADJUSTMENT OF CATCH BASIN AT STA. 53+00 I.B. LT. Scale: 3/8" = 1'-0"

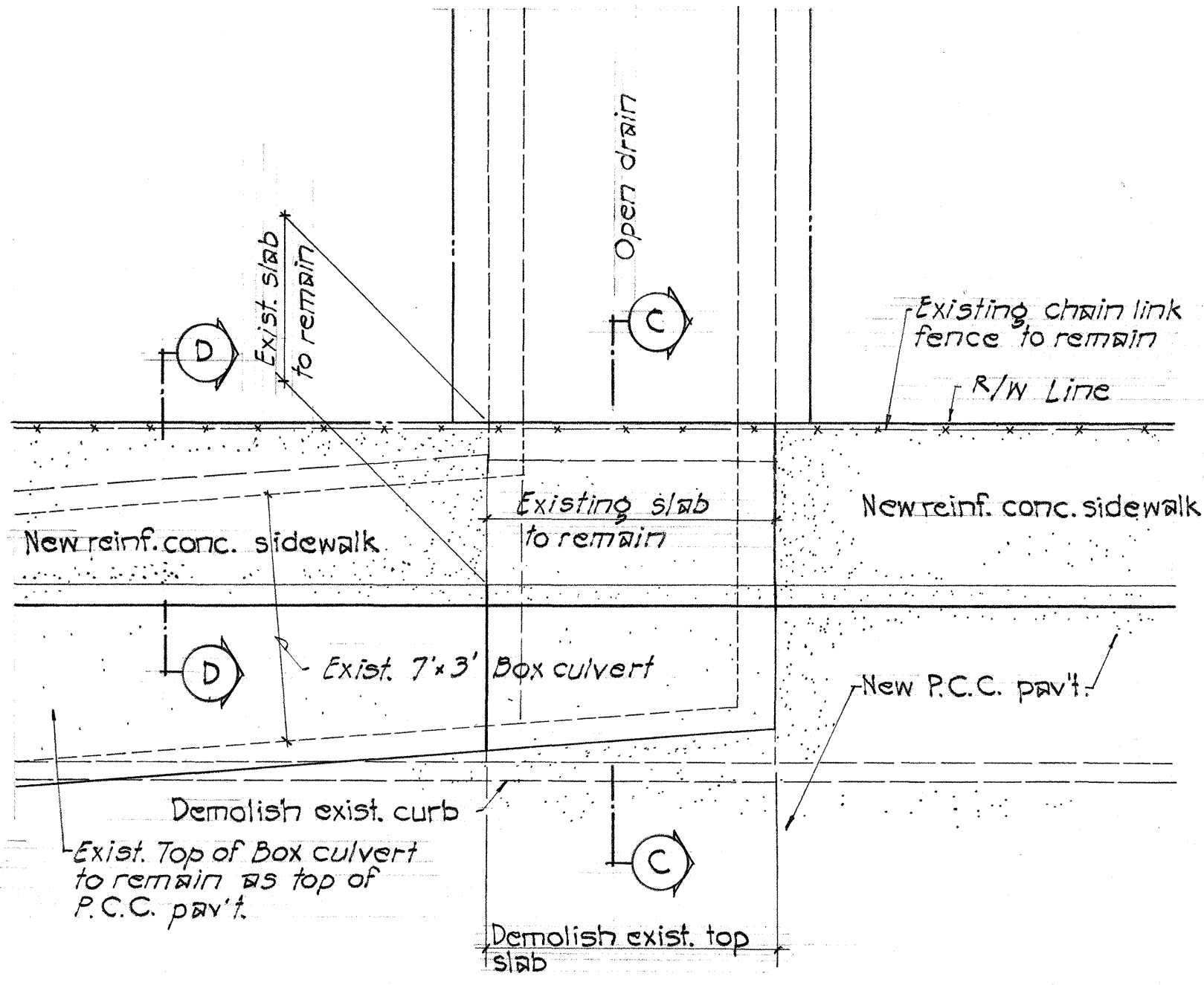


SECTION C-C Scale: 1/2" = 1'-0"



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

(Typical Detail for curb & sidewalk over exist. 7'x3' Box culvert @ Sta. 53+75 ± to Sta. 54+26 I.B. Lt.)



PLAN - ADJUST DRAIN BOX AT STA. 54+30 I.B. LT. Scale: 1/4" = 1'-0"

DATE	.....
SURVEYED BY	.....
DRAWN BY	.....
DESIGNED BY	.....
CHECKED BY	.....
ORIGINAL PLAN	.....
NOTE BOOK	.....
No.	.....

GENERAL NOTE:
All dimensions of existing structures shall be verified by the Contractor in the field.

PLAN - DOUBLE 8'-0" x 5'-3" BOX CULVERT EXTENSION

SECTION A-A

SECTION B-B OUTLET HEADWALL ELEVATION

SECTION C-C

SECTION D-D

SHEET No. 4 OF 4 SHEETS