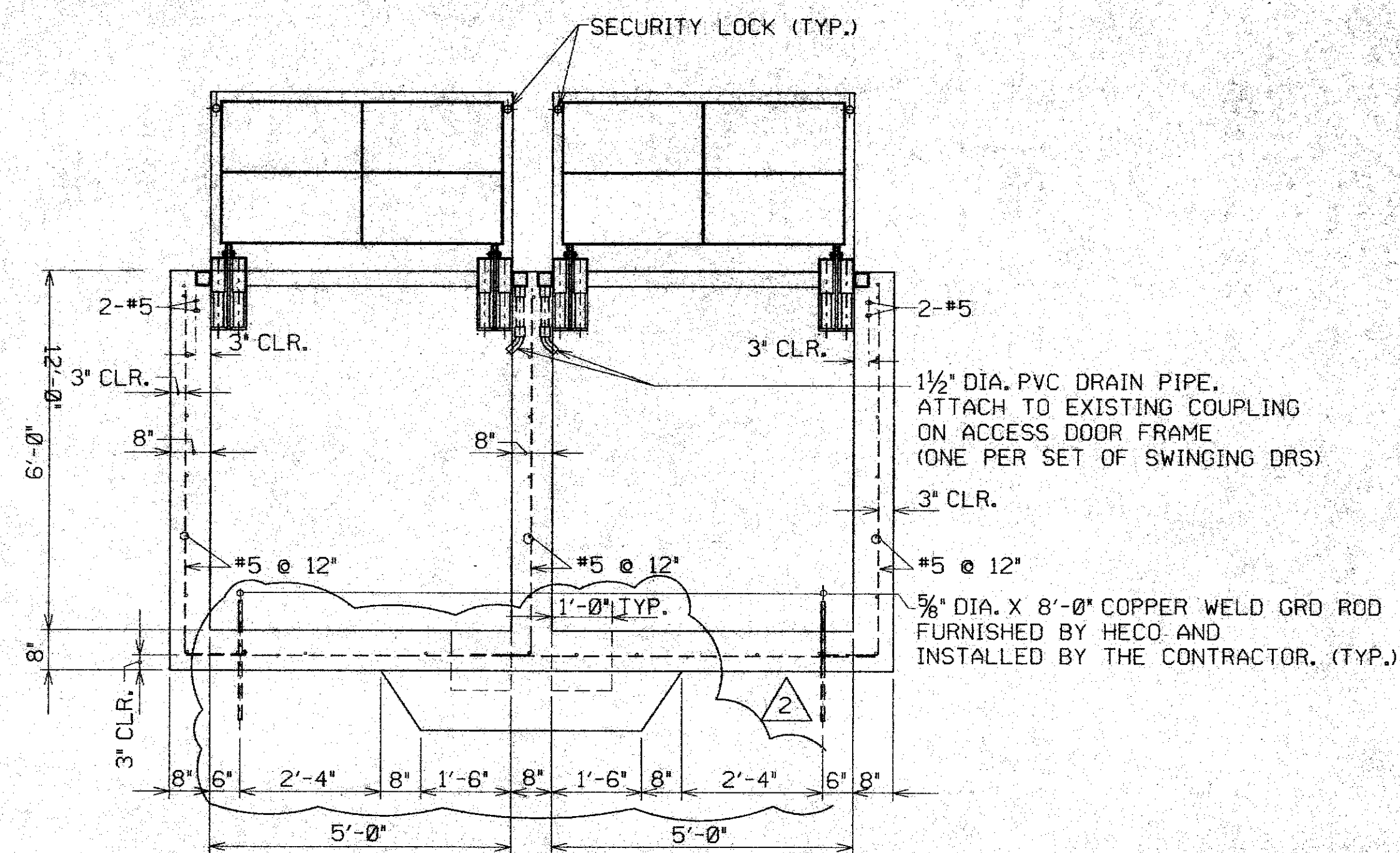
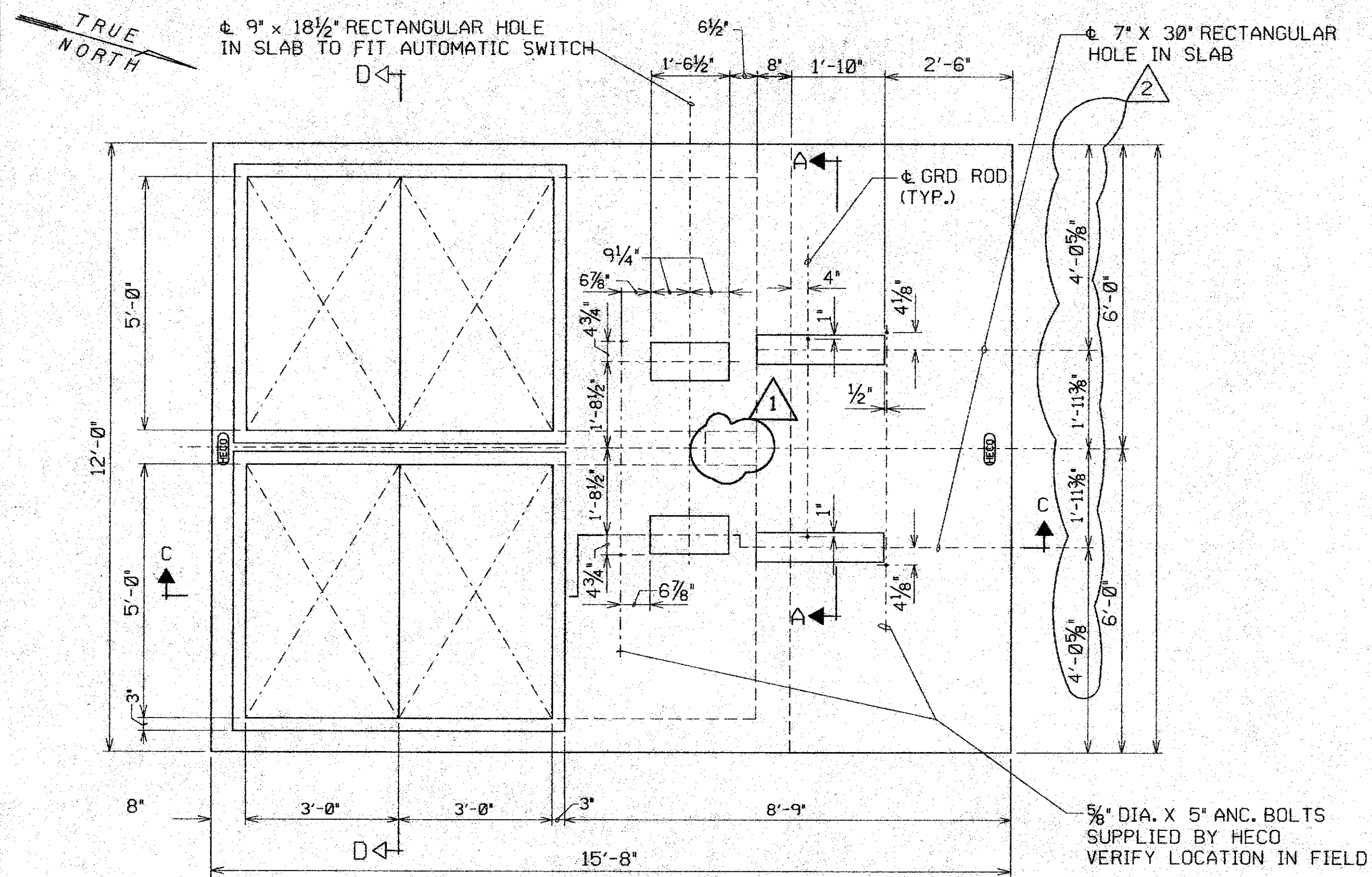
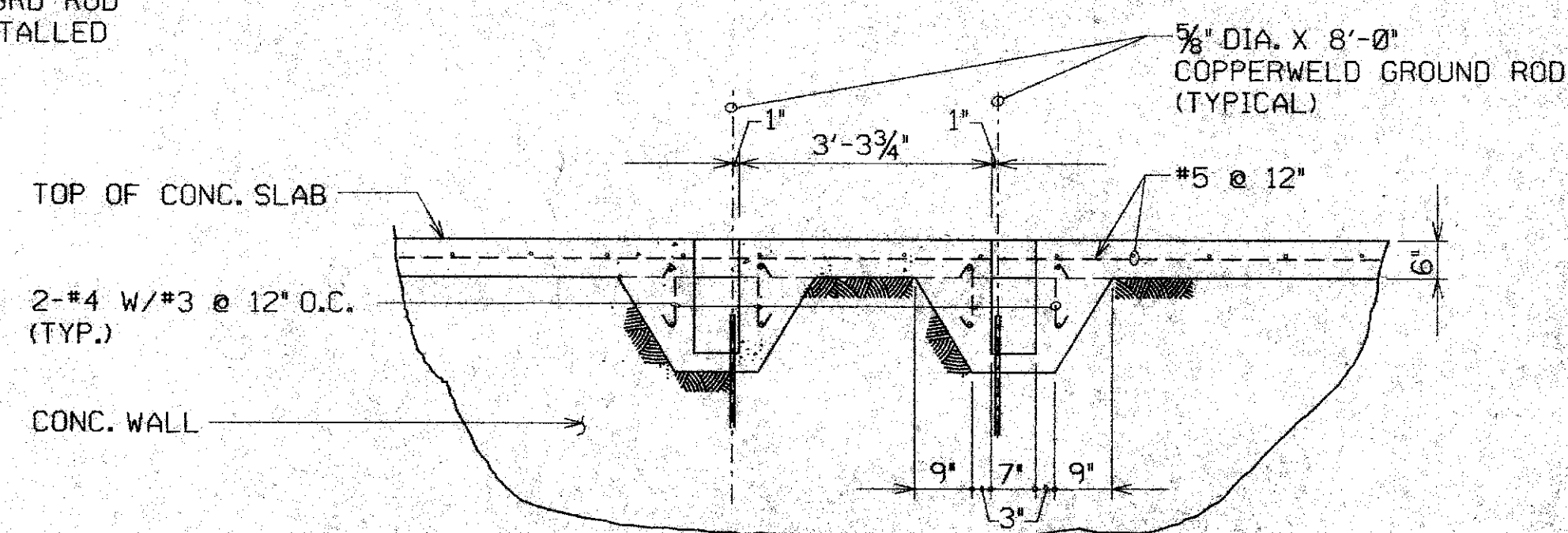
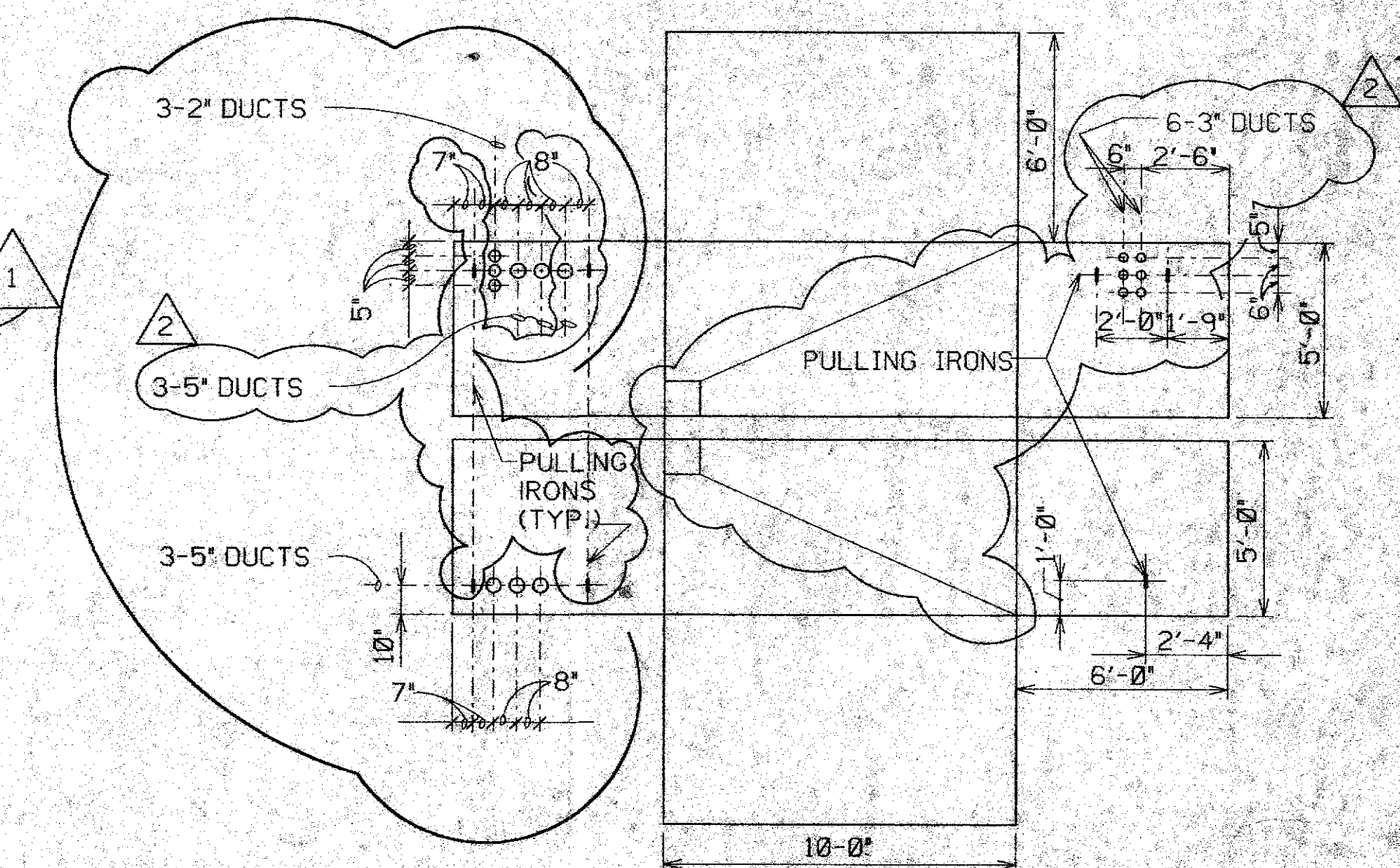
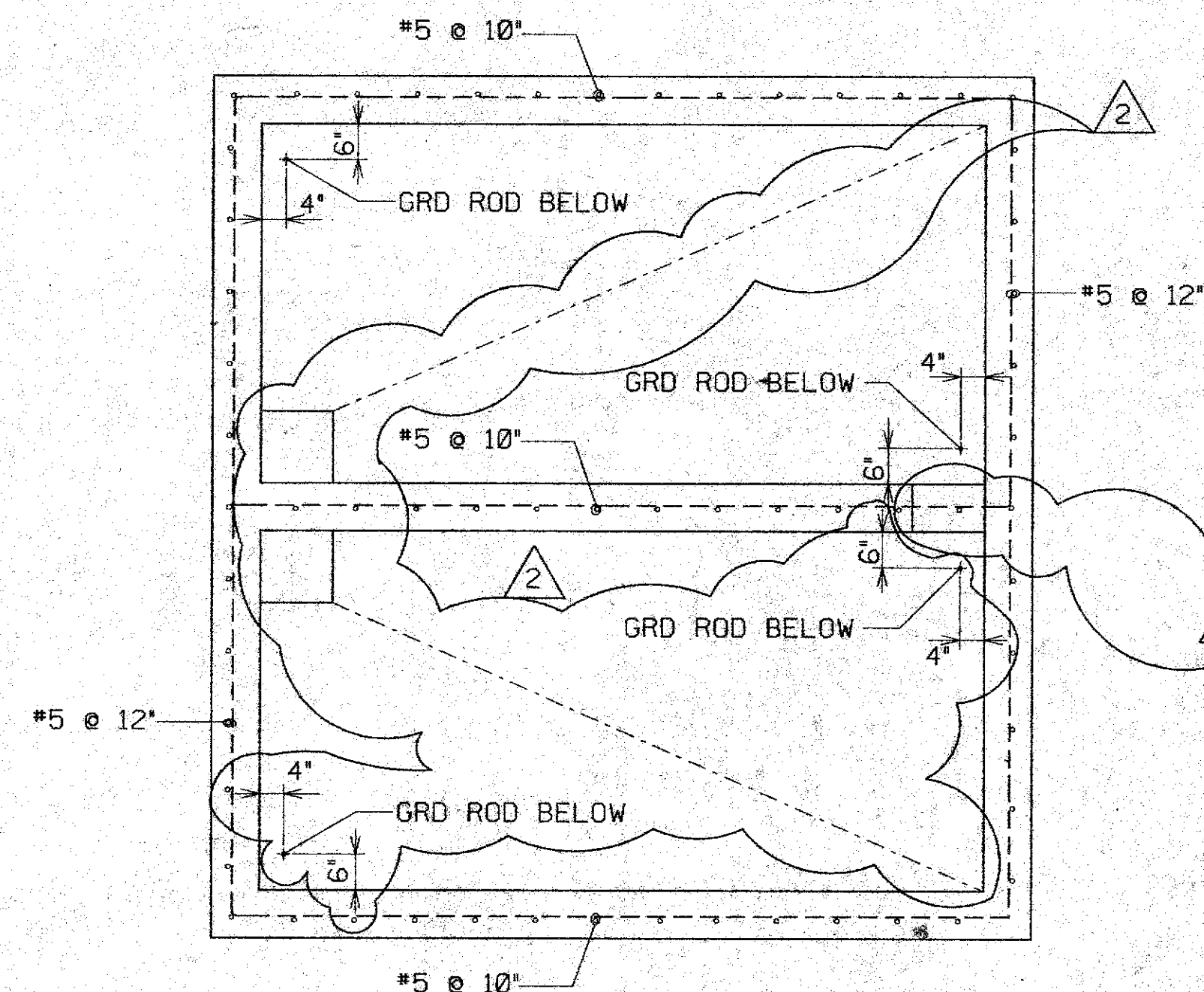
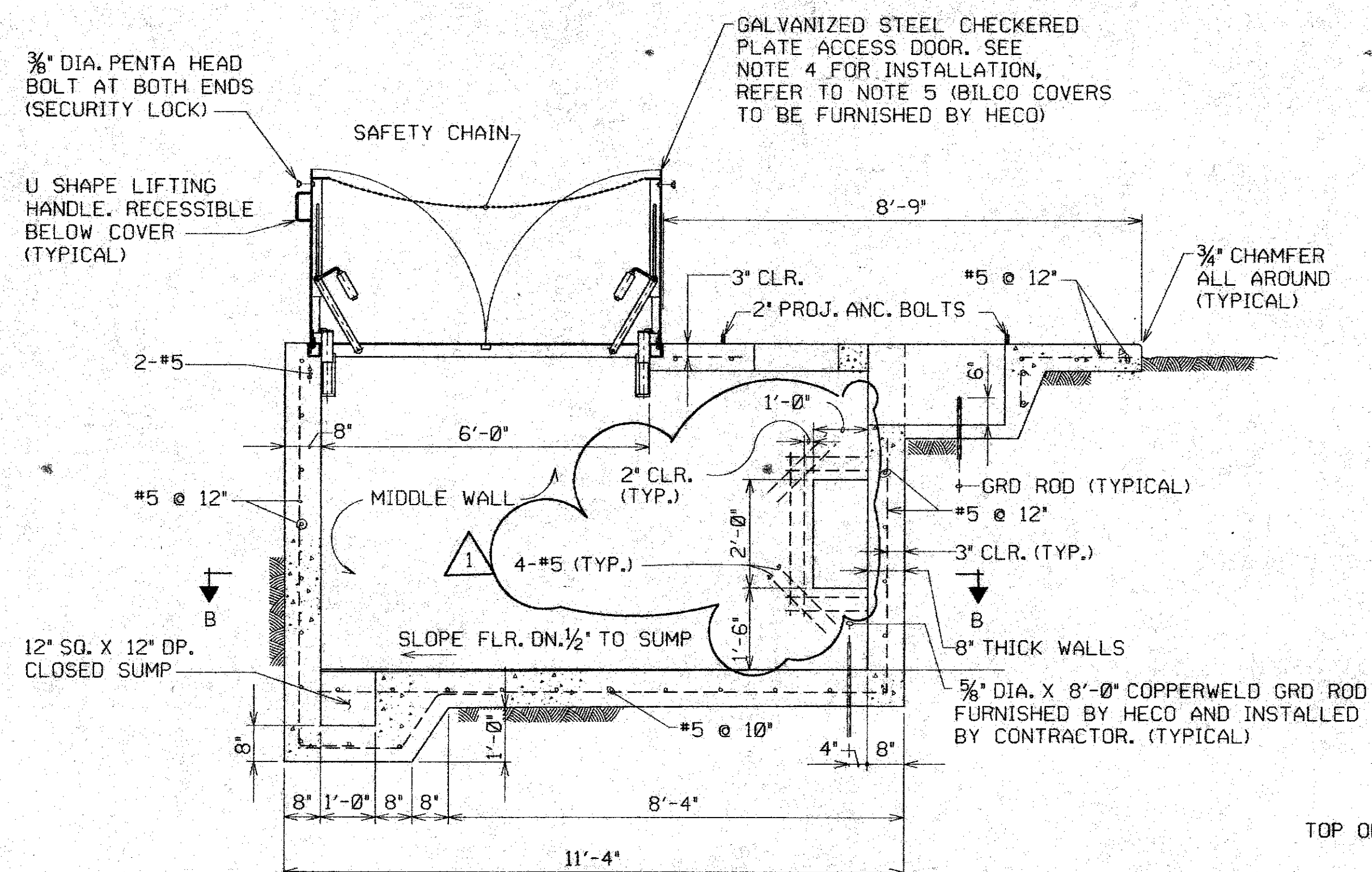
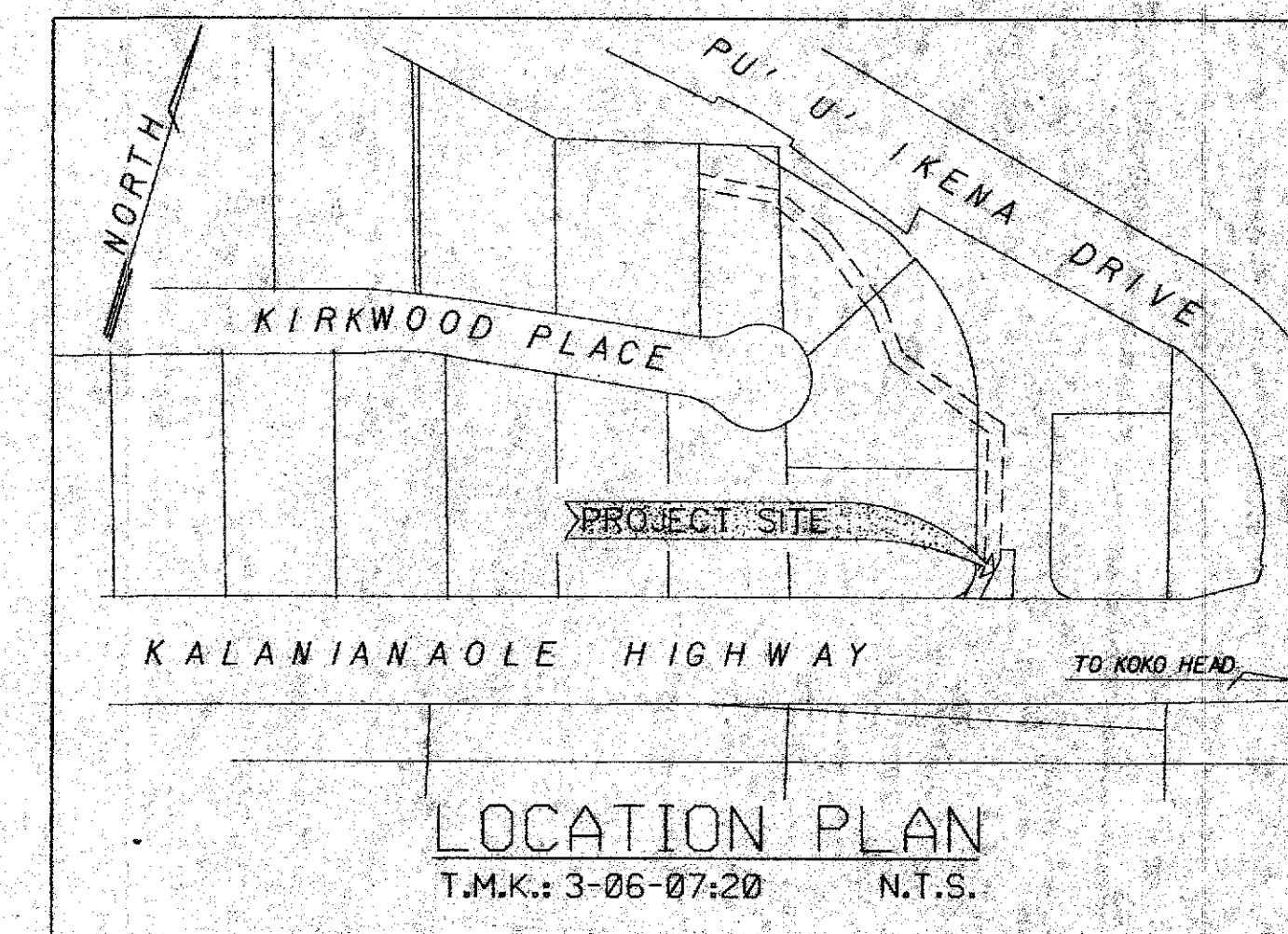




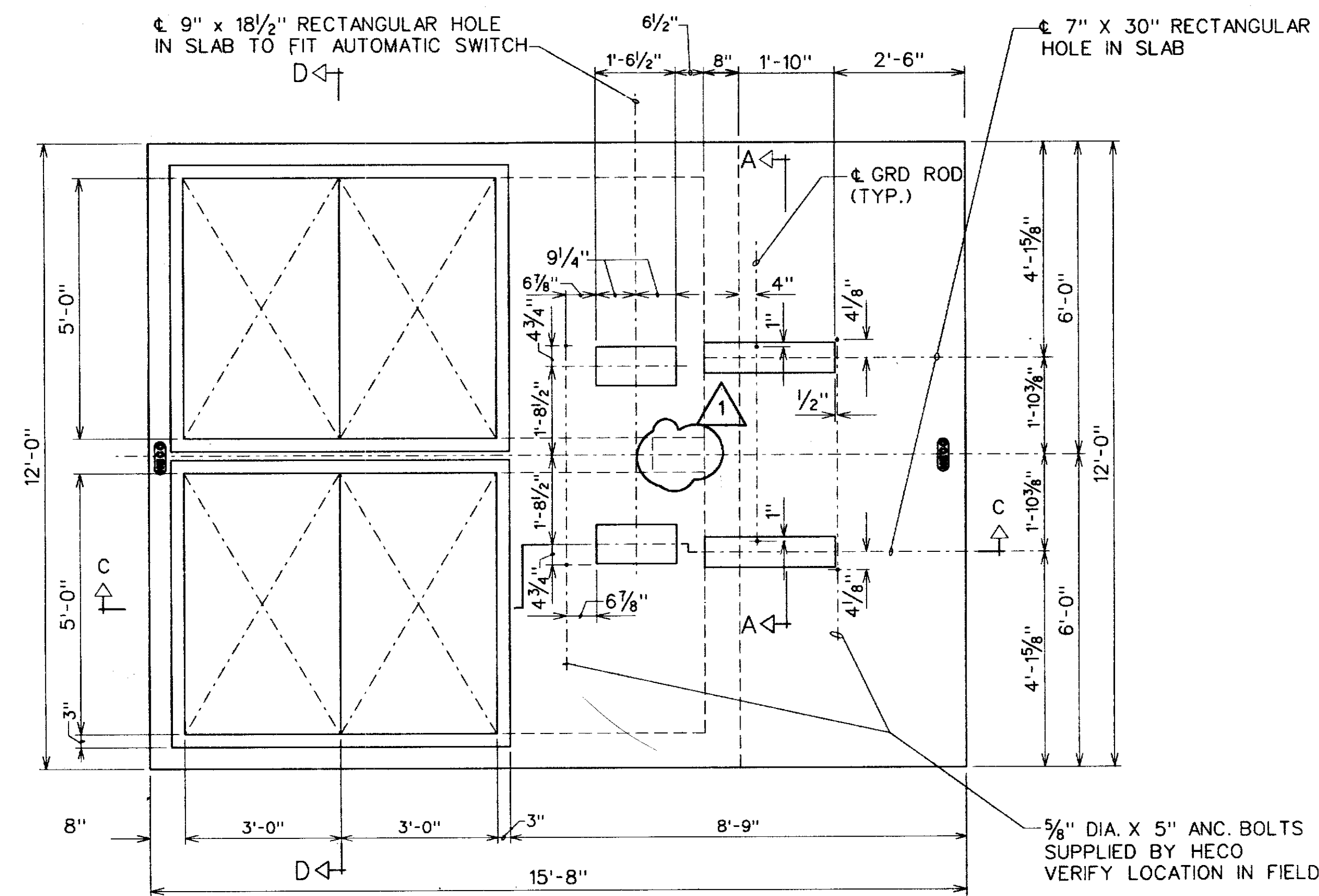
- NOTES:
1. FOR LOCATION OF TRANSFER SWITCH PAD, SEE HECO DWG. NO. 71456.
 2. WORK THIS DWG WITH STATE OF HAWAII DWG. F.A. PROJECT NO. F-072-10349B, SHEET E-7.
 3. TOP OF SWITCH HANDHOLE SHALL MATCH NEW AND/OR EXISTING GRADES UNLESS OTHERWISE SHOWN OR NOTED ON PLANS OF PROJECT CONCERNED.
 4. CHECKER PLATE STEEL (GALVANIZED) ACCESS DOOR, TYPE JD-3, AS MANUFACTURED BY THE BILCO COMPANY, LOCAL DISTRIBUTOR ALOHA STATE CO., INC., 2829 AWAHALOA STREET.
 5. THE CHECKER PLATE ACCESS DOOR FRAME SHALL BE INSTALLED PRIOR TO PLACEMENT OF THE CONCRETE. INSTALLATION OF THE DOOR FRAME SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 6. FOR MISCELLANEOUS DETAILS, REFER TO DWG. 16668 (2 SHEETS).
 7. CONSTRUCT TRANSFER SWITCH PAD IN ACCORDANCE WITH HECO STANDARD SPECIFICATIONS CS7001, CS7003, CS7202 AND CS7401.



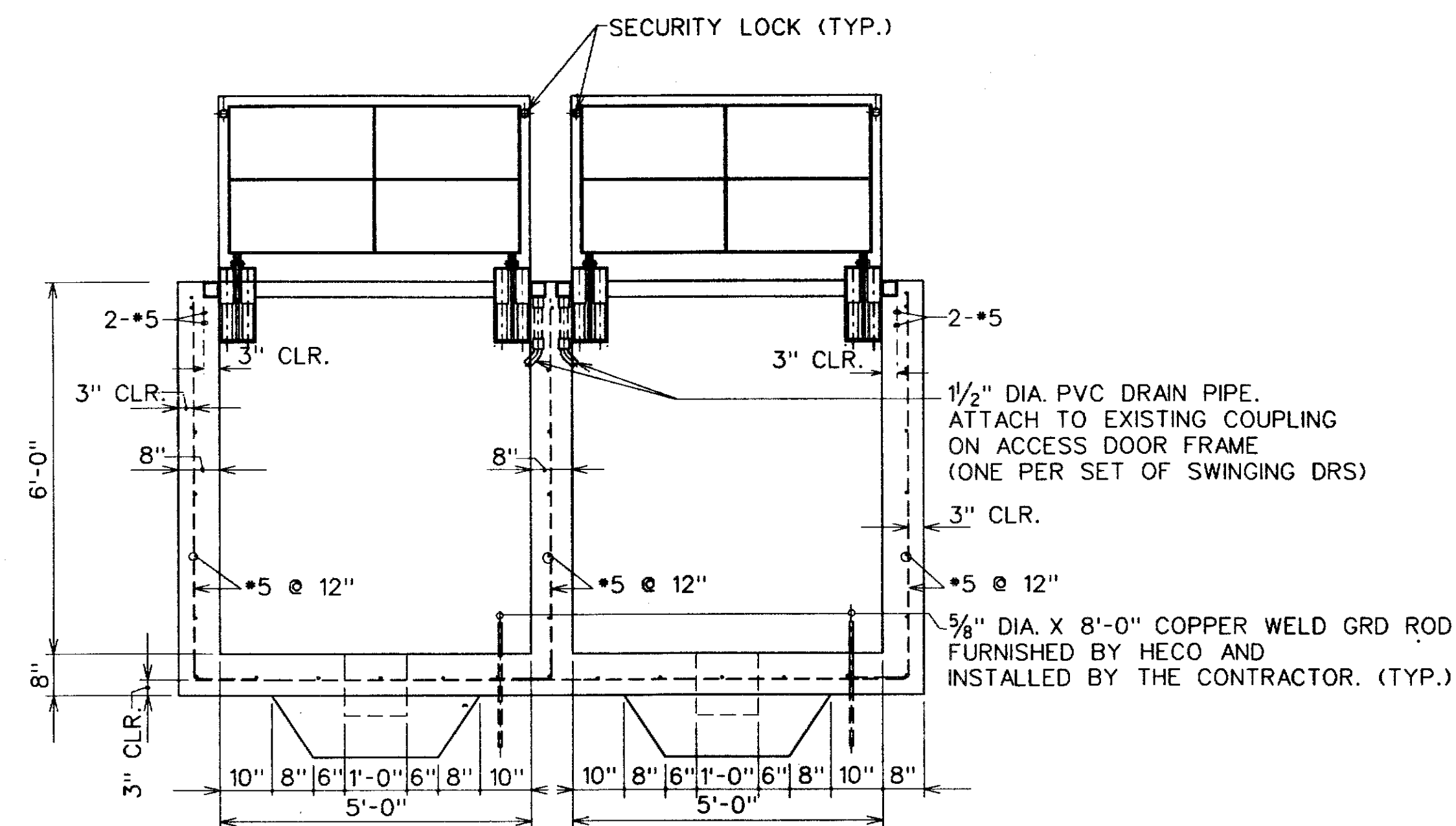
NO.	DATE	REVISIONS	BY	CHK'D	APP'D
2	12-19-90	CHANGED SUMP LOCATION, ADDED 6-3" DUCTS, 1-5" DUCT, AND CHANGED NOTES	JK	JS	PAC
1	4/28/90	ADDED 3-2" DUCTS, 1-5" DUCT AND 1" X 2" X 2" OPENING	JS	JS	PAC
A	9/13/91	ISSUED FOR GOVERNMENTAL APPROVAL	JS	JS	PAC

KALANIANA'OLE HIGHWAY PHASE 1
KAL HWY AUTOMATIC TRANSFER SWITCH PAD
12KV UNDERGROUND DUCT LINE

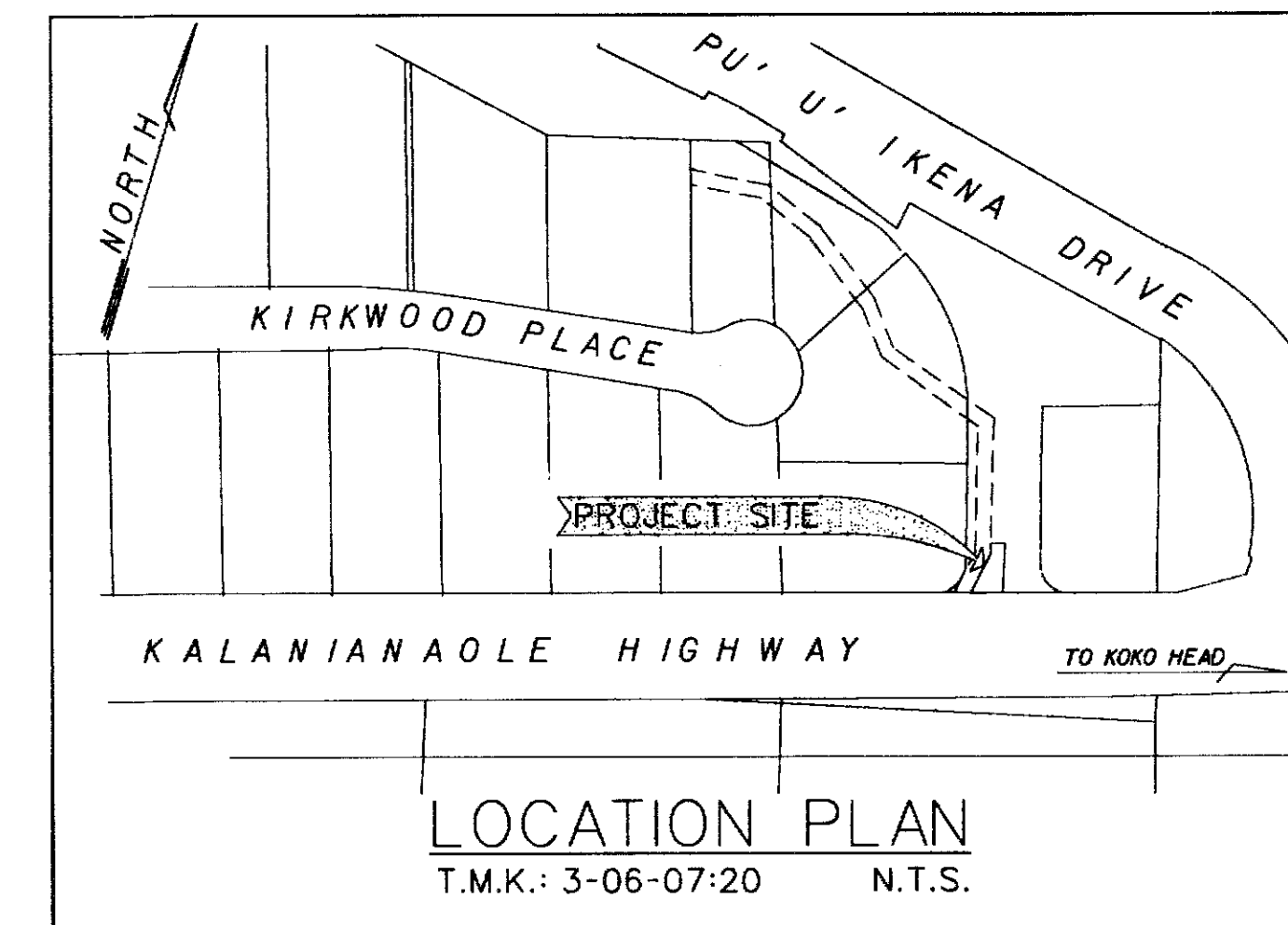
DESIGNED: JAMES FU	DRAWN: JS	DATE: 9/13/91	SCALE: AS SHOWN
CHECKED BY: SC ELEC. NEON. STRUC.	ENGINEERING DEPARTMENT	HAWAIIAN ELECTRIC CO., INC.	HONOLULU, HAWAII
APPROVAL:	DRAWING NUMBER	REV	
P.A. Deliza M. Berry H.M.	070813	1/2	



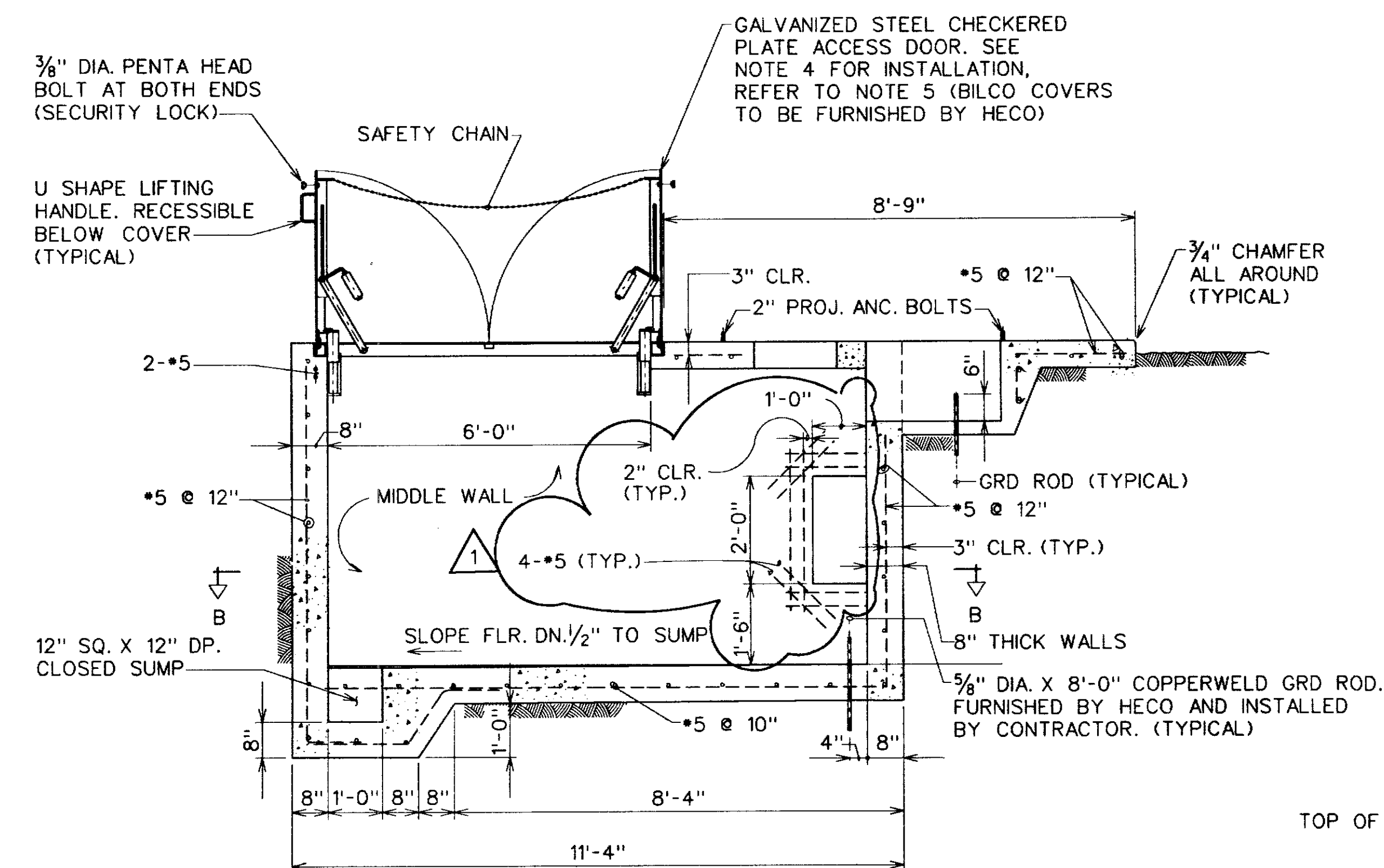
PLAN
SCALE: 1/2"=1'-0"



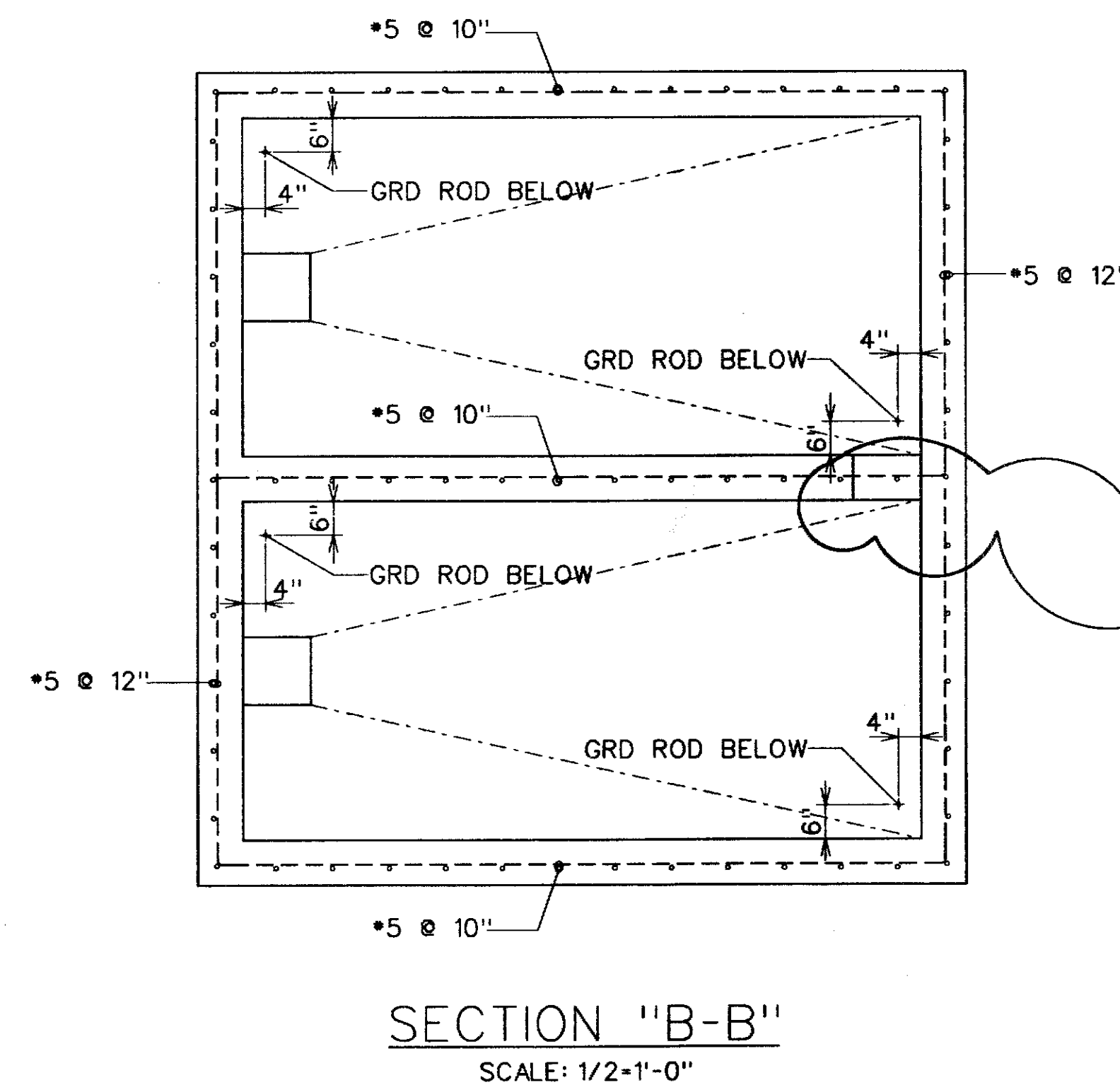
SECTION "D-D"
SCALE: 1/2"=1'-0"



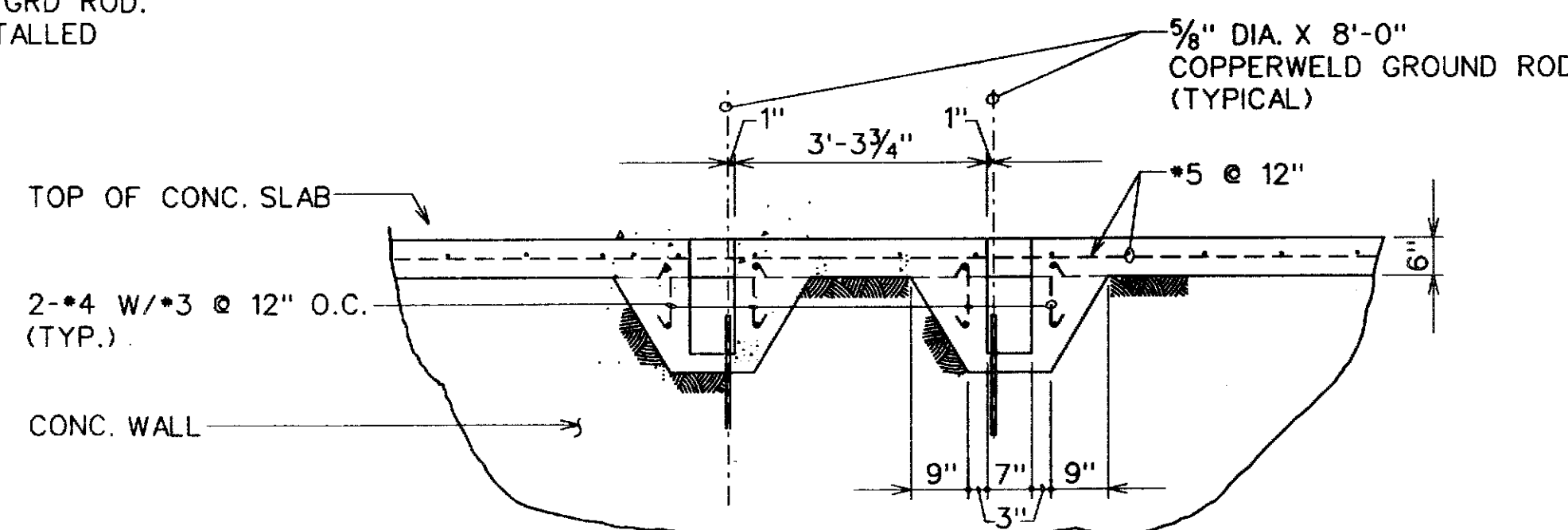
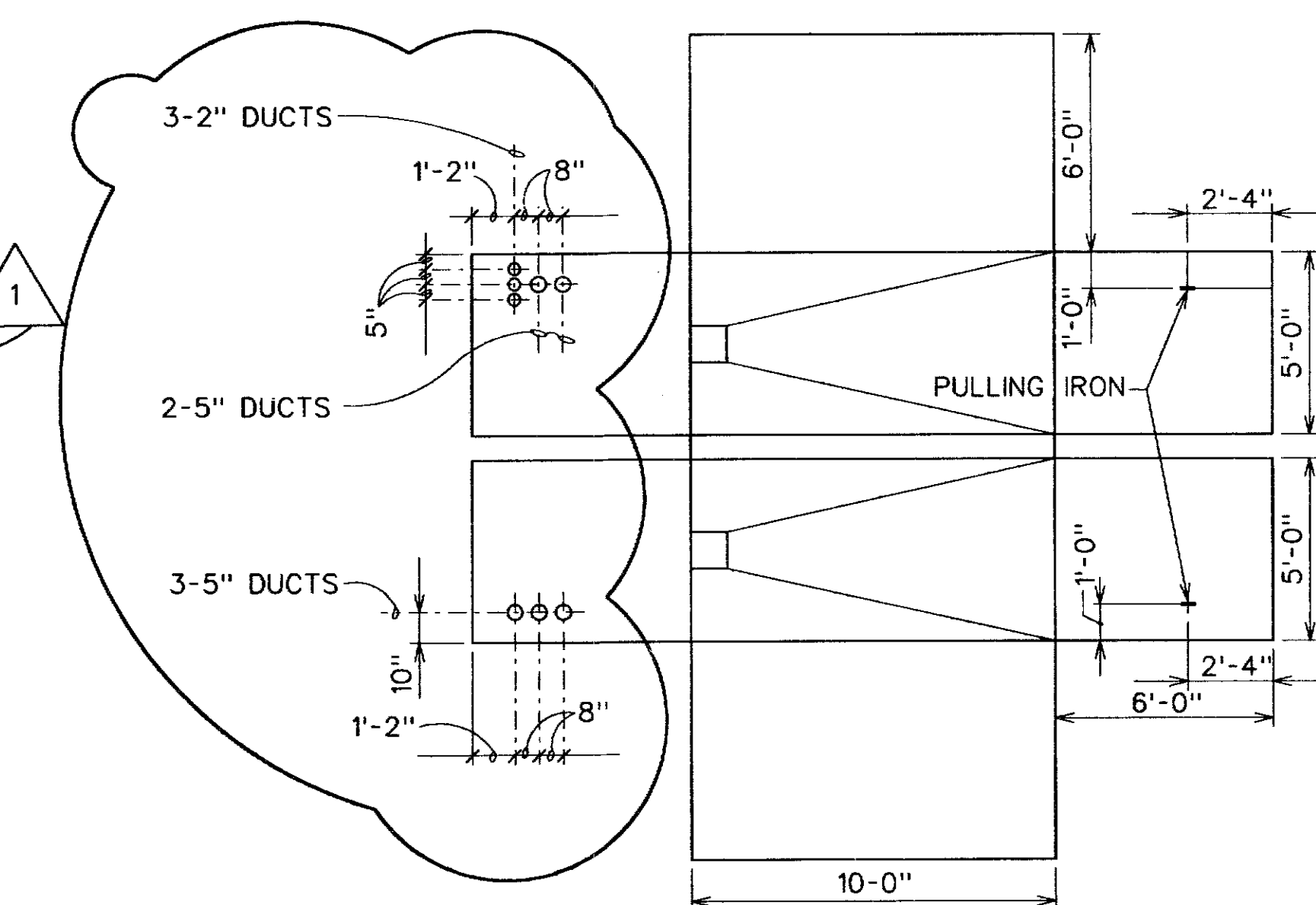
- NOTES:
1. LOCATION PLAN, LIST OF DRAWINGS AND LIST OF SPECIFICATIONS TO BE FURNISHED LATER.
 2. TOP OF SWITCH HANDHOLE SHALL MATCH NEW AND OR EXISTING GRADES UNLESS OTHERWISE SHOWN OR NOTED ON PLANS OF PROJECT CONCERNED.
 3. CHECKER PLATE STEEL (GALVANIZED) ACCESS DOOR. TYPE JD-3, AS MANUFACTURED BY THE BILCO COMPANY. LOCAL DISTRIBUTOR ALOHA STATE CO., INC., 2829 AWAALOA STREET.
 4. THE CHECKER PLATE ACCESS DOOR FRAME SHALL BE INSTALLED PRIOR TO PLACEMENT OF THE CONCRETE. INSTALLATION OF THE DOOR FRAME SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 5. FOR MISCELLANEOUS DETAILS, REFER TO DWG. 16688 (2 SHEETS).



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



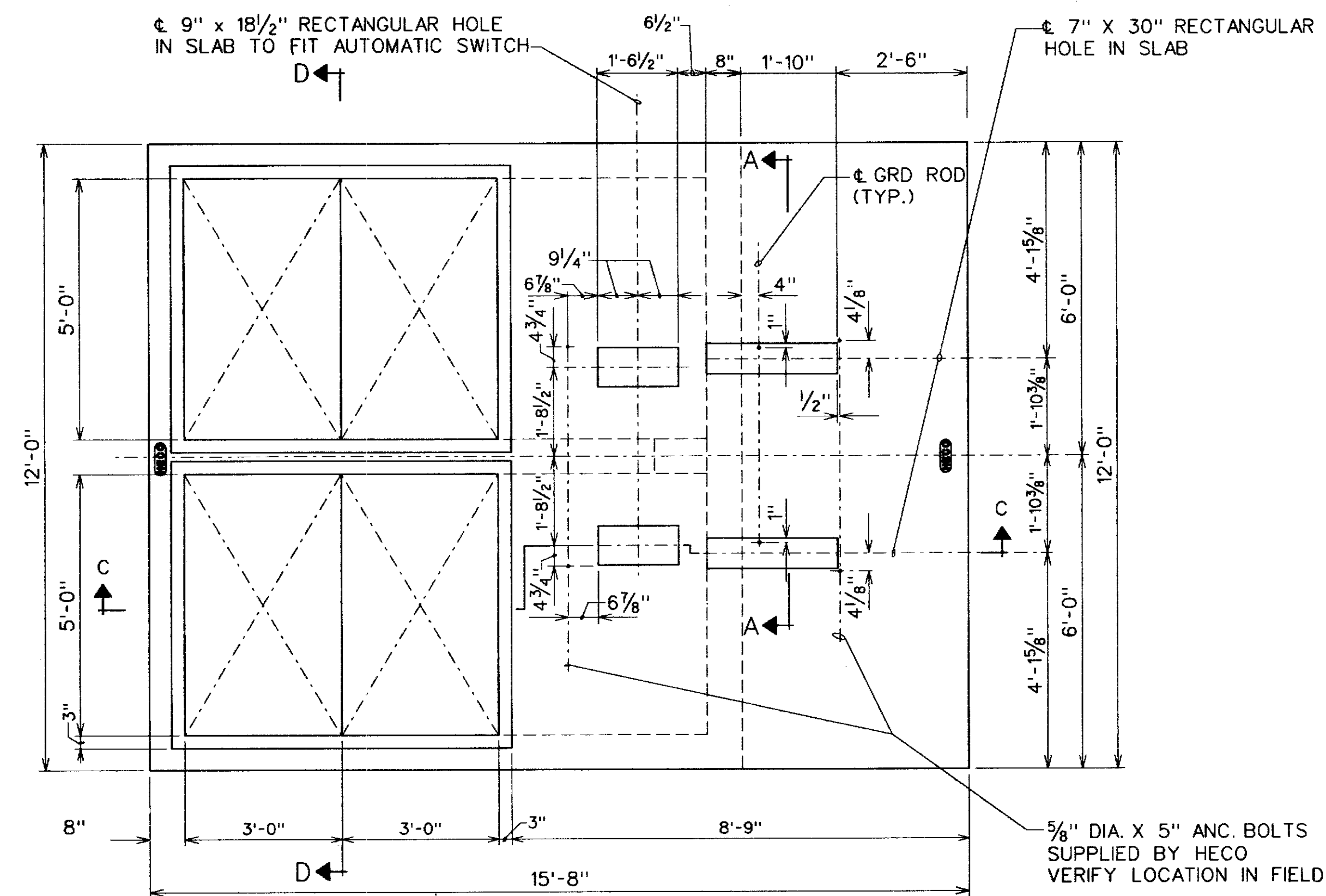
SECTION "B-B"
SCALE: 1/2"=1'-0"



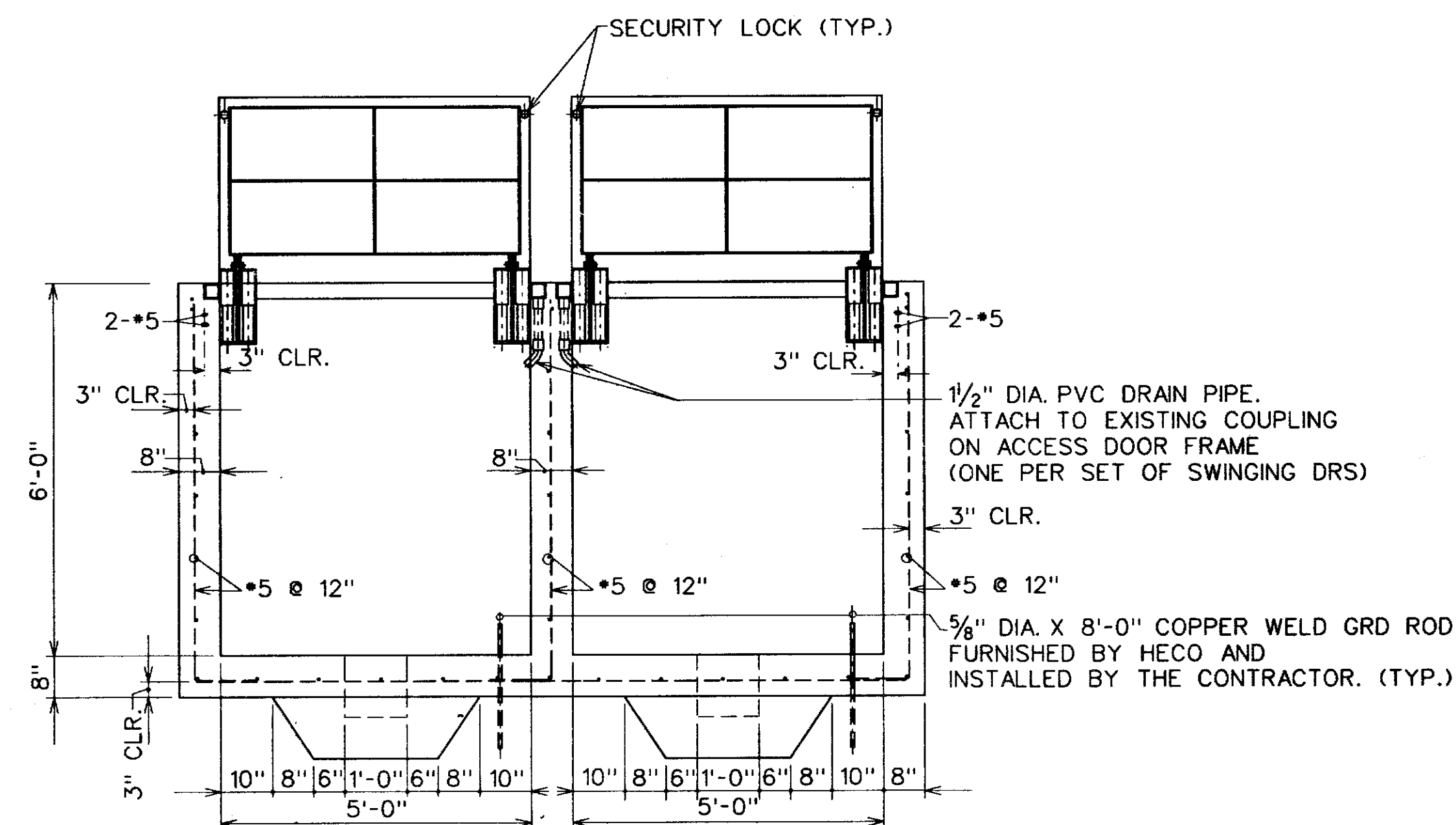
SECTION "A-A"
SCALE: 1/2"=1'-0"

KALANIANA'OLE HIGHWAY WIDENING PHASE I

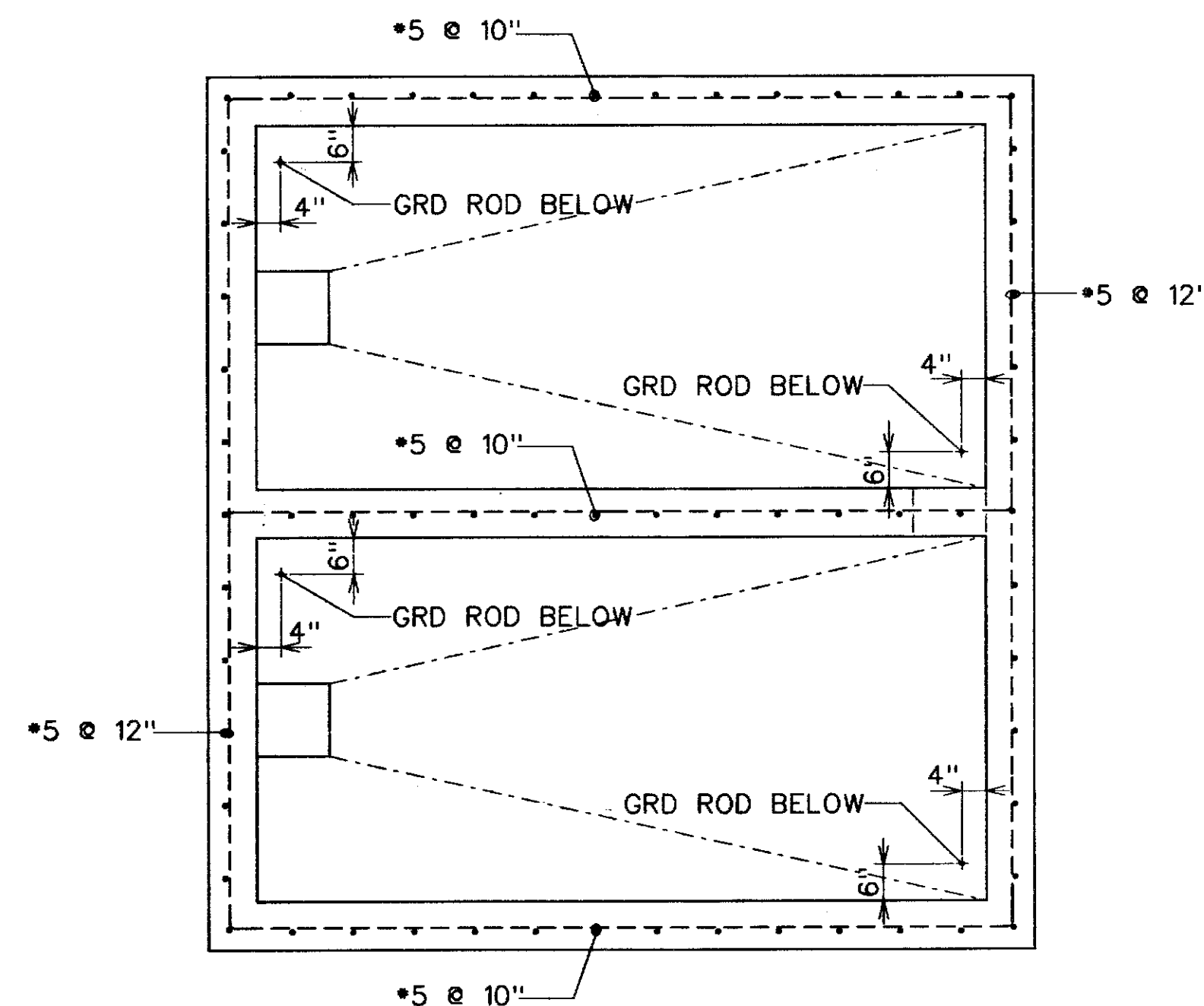
1	4/28/98	ADDED 3-2" DUCTS, 1-5" DUCT AND 1'-0" X 2'-0" OPENING	JS		
A	9/13/89	ISSUED FOR GOVERNMENTAL APPROVAL	JS	JF	PKC
NO.	DATE	REVISIONS	BY	CHK'D	APP'D
KALANIANA'OLE HIGHWAY PHASE 1 KAL HWY AUTOMATIC TRANSFER SWITCH PAD 12KV UNDERGROUND DUCT LINE					
DESIGNED	JAMES FU	DRAWN	JS	DATE	9/13/89
CHECKED	RT SE	MECH.	JF	SCALE	AS SHOWN
APPROVAL				ENGINEERING DEPARTMENT HAWAIIAN ELECTRIC CO., INC. HONOLULU, HAWAII	
	P.A. Calizor			DRAWING NUMBER	070813
	M. Iseri			REV	1
	H.M.				



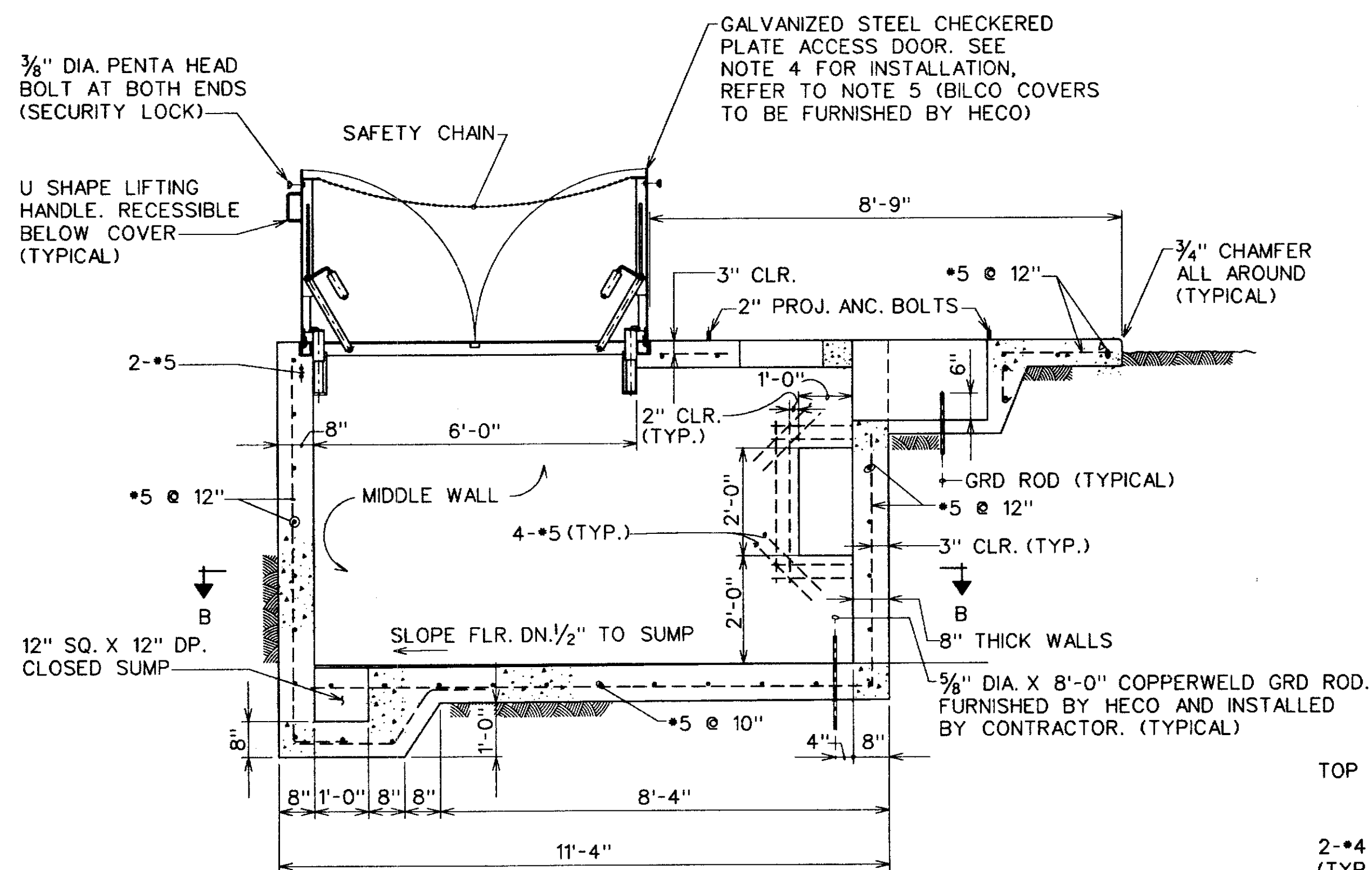
PLAN
SCALE: 1/2" = 1'-0"



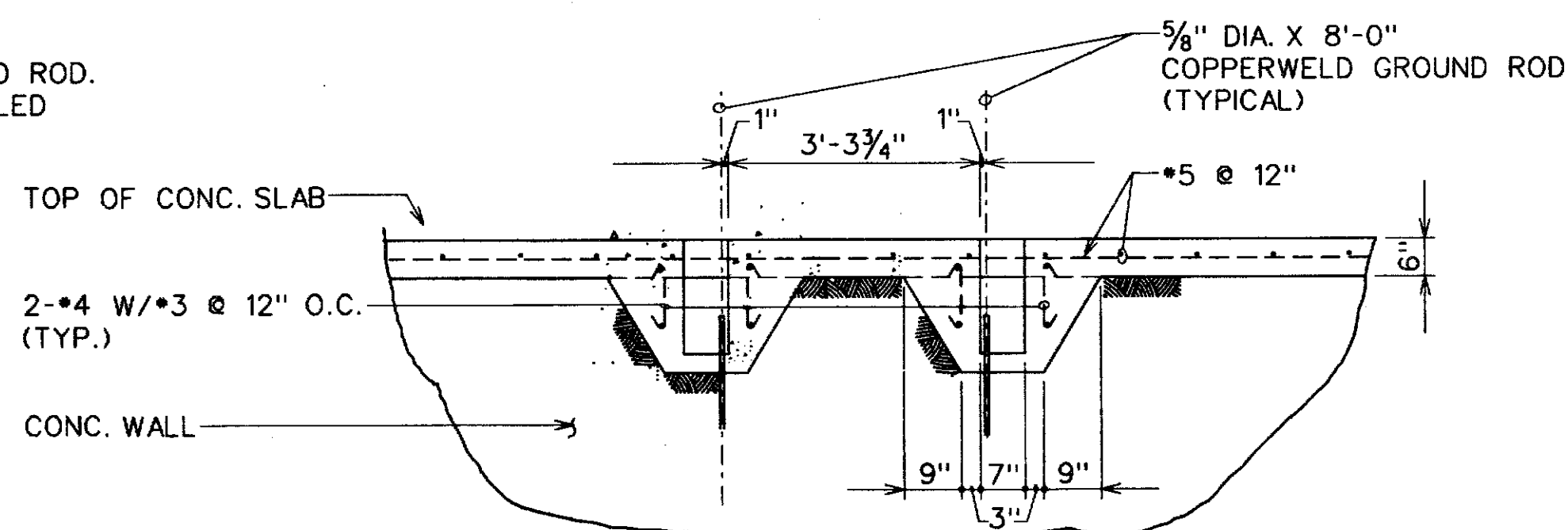
SECTION "D-D"
SCALE: 1/2" = 1'-0"



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

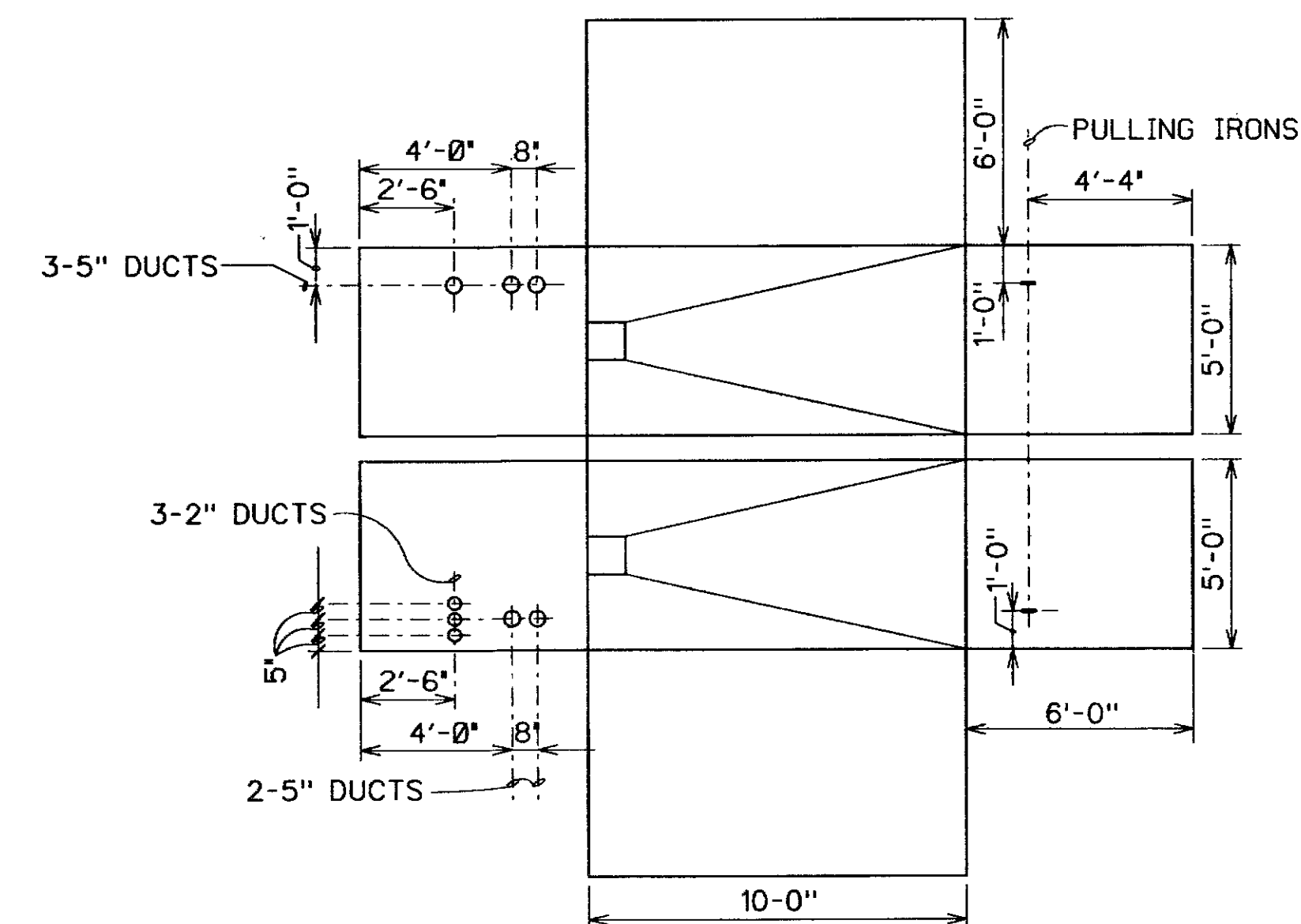
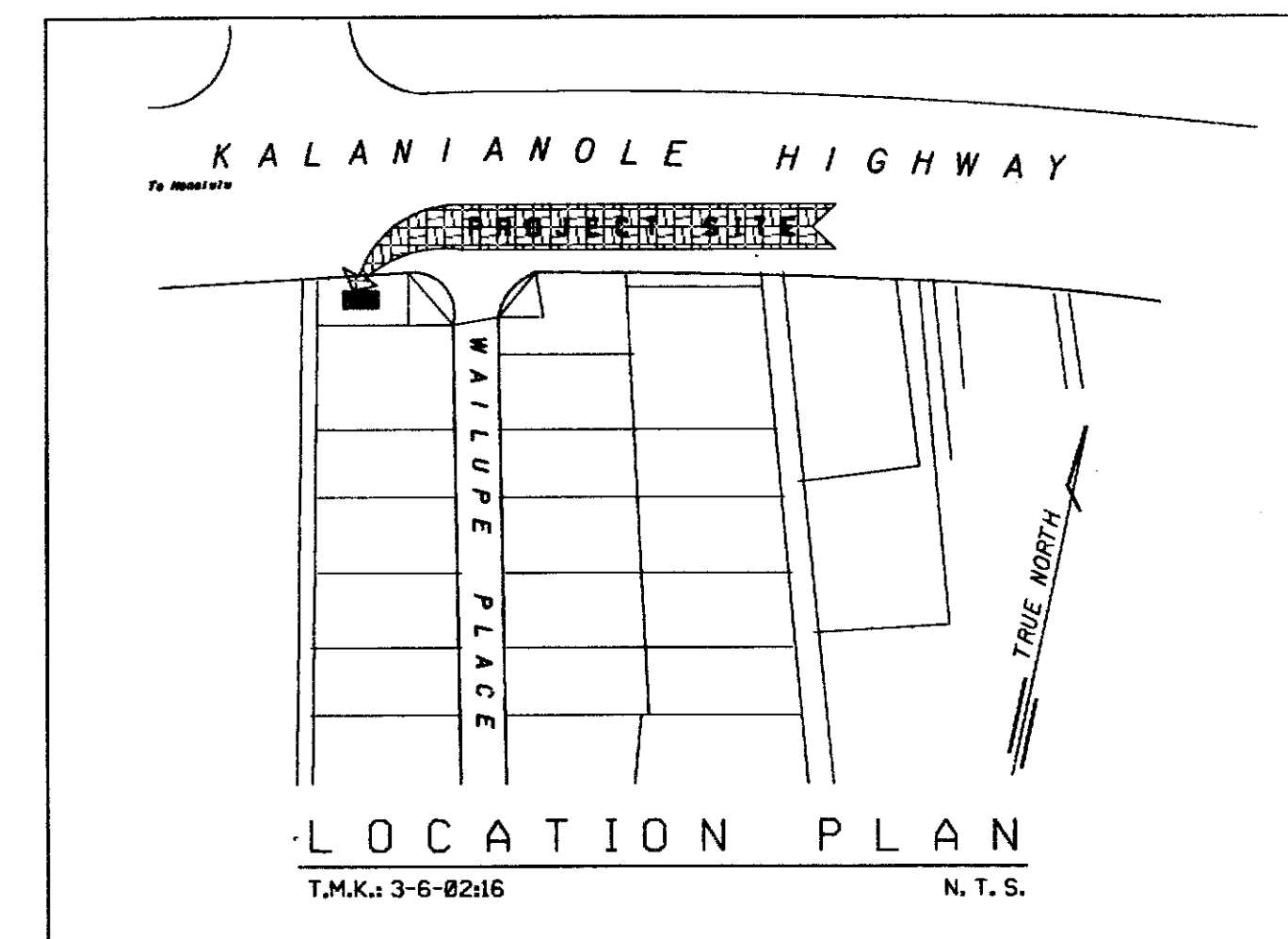


SECTION "C-C"
SCALE: 1/2" = 1'-0"



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

- NOTES:
1. LOCATION PLAN, LIST OF DRAWINGS AND LIST OF SPECIFICATIONS TO BE FURNISHED LATER.
 2. TOP OF SWITCH HANDHOLE SHALL MATCH NEW AND OR EXISTING GRADES UNLESS OTHERWISE SHOWN OR NOTED ON PLANS OF PROJECT CONCERNED.
 3. CHECKER PLATE STEEL (GALVANIZED) ACCESS DOOR. TYPE JD-3, AS MANUFACTURED BY THE BILCO COMPANY. LOCAL DISRIBUTOR ALOHA STATE CO., INC., 2829 AWAALOA STREET.
 4. THE CHECKER PLATE ACCESS DOOR FRAME SHALL BE INSTALLED PRIOR TO PLACEMENT OF THE CONCRETE. INSTALATION OF THE DOOR FRAME SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 5. FOR MISCELLANEOUS DETAILS, REFER TO DWG. 16688 (2 SHEETS).



DEVELOPMENT PLAN
SCALE: 1/4" = 1'-0"

A	4/20/90	ISSUED FOR BID	JS		
NO.	DATE	REVISIONS	BY	CHK'D	APP'D
KALANIANA'OLE HIGHWAY AND WAILUPE PLACE KAL HWY AUTOMATIC TRANSFER SWITCH PAD 12KV UNDERGROUND DUCT LINE					
DESIGNED	JAMES FU	DRAWN	JS	DATE	3/20/90
CHECKED	ELEC. MECH. STRUC.	SCALE	AS SHOWN	ENGINEERING DEPARTMENT HAWAIIAN ELECTRIC CO., INC. HONOLULU, HAWAII	
APPROVAL	DRAWING NUMBER		REV		
	71139		A		