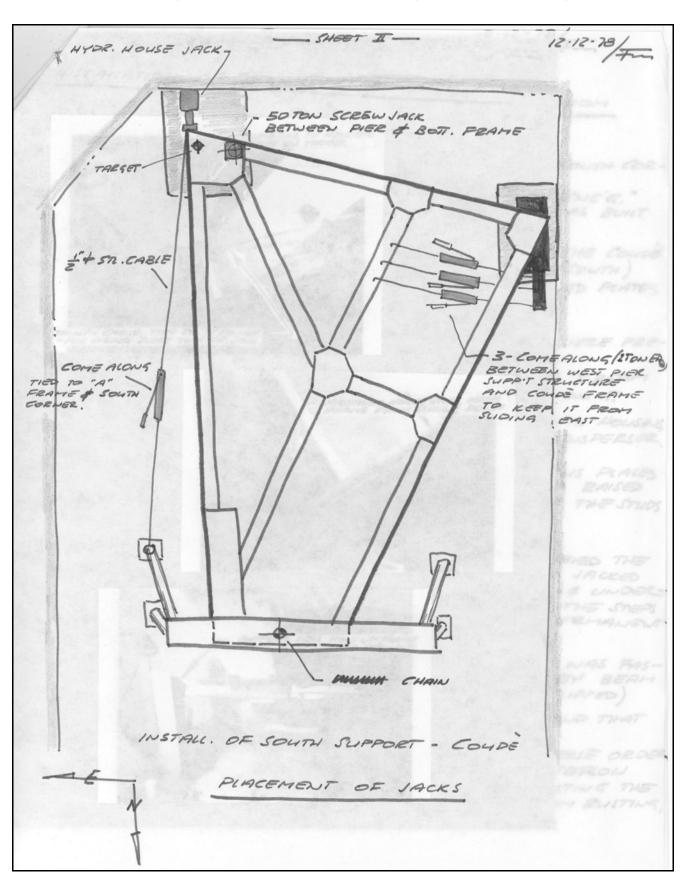
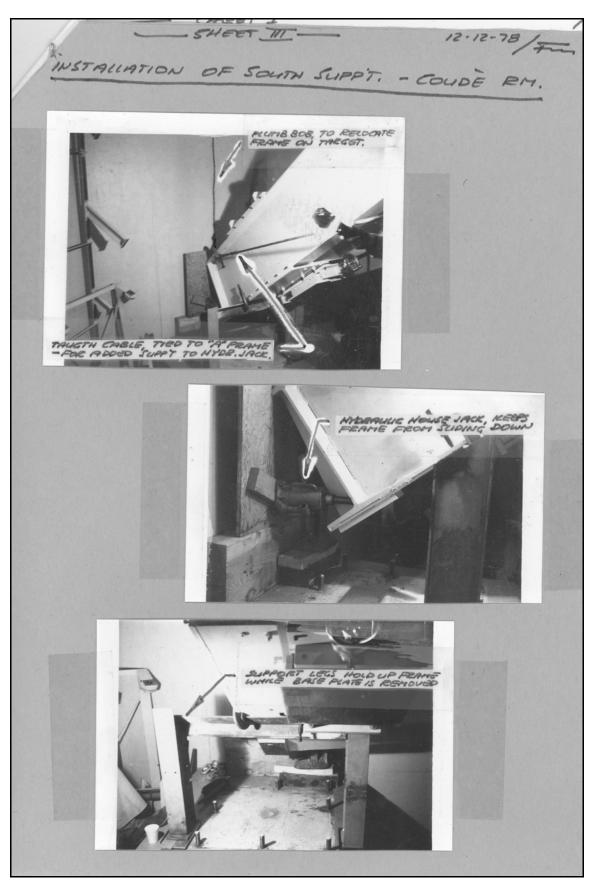
- SHEET I-INSTALLATION OF SOUTH SUPPORT - COUDE ROOM IN NOVEMBER 78 A NEW SUPPORT POR THE SOUTH COR-NER OF THE COUDE FRAME WAS INSTALLED, THE SUPPORT WAS DESIGNED BY "CEIDEBURG ENGG." (408) 688-3841 DWG. NO. 14-C-14, AND WAS BUILT IN OUR SHOP. THE IDEA BEHIND THE DESIGN IS TO ALLOW THE COUDE PRAME TO PIVOT ON A SPHERICAL BEARING (SOUTH) WHILE THE WEST SUPPORT GOT NEW HARDENED PLATES SO IT CAN SCIDE IN AN E-W DIRECTION. DR. G. HERBIG, R. LAUB, N. JERN & F. MUELLER WERE PRE-SENT AT THE INSTAURTION. WE FIRST MADE A TARGET ON THE TOP OF THE I.BEAM SOUTH CORNER, AND CENTERED A PLUMB BOB ON IT. WE REMOVED THE BOTTOM COLLINATOR AND ITS HOUSING AND THE LIFT MOTOR ON THE ECHELE-CROSSDISPERSOR WE PLACED JACKS AND COME ALONGS AT UARIOUS PLACES (SEE SHEET I & III) UNDER THE FRAME AND RAISED THE SOUTH CORNER APPROX. 31/2" TO CLEAR THE STUDS THAT ARE IMBETTED IN THE PIER. WE DISMANTELED THE WELDHENT THAT CARRIED THE SUPPORT WHER, CLAMPED EARS TO IT AND VACKED IT UP HIGH ENDUGH TO GET 2 BROOT 2X4 UNDOR-NEATH, THEN WE SLID THE WELDMENT ONTO THE STEPS OF THE COUPE RM WHERE IT POUND A PERMANENT NEAL WELDED UP A SUPPORT PRAME WHICH WAS FAS-TENED TO THE I BEAM OF THE COUDE FRAME BY BEAM CLAMPS (TO TAKE THE LOAD IN CASE A JACK SCIPPED) THEN THE NUTS CAME OFF THE BASE PLATE AND THAT 100 WAS REMOVED THE NEW SUPPORT WAS INSTALLED IN REVERSE ORDER THE BASE PLATE WAS SPRAYED WITH A THINTORION TO FACILITATE MOUING (FOR FINE ADJUSTING THE FRAME) AND TO PREVENT THE STEEL PROM RUSTING





7-20.79

COUDE PEAME ALIGNMENT DOULD WAVE TO MOVE THE

AFTER THE INSTALLATION OF THE NEW SOUTH SUPPORT IN NOU, 78. DR. GEORGE HEARIG & GENE HARIAN TRIED TO REALIGN THE OPTICS AND FOUND THE FRAME TO BE OFF.

THEY MEASURED THE OPTICAL AXIS AT THE 61/2" COLLINATE AND FOUND IT, TO BE APPROX I'S" OFF TO THE RIGHT. - (THE COLLITATOR)

GEORGE HERBIG, THE MOUNTAIN CREW AND I TRIED TO MOUE THE FEAME WEST (BY MEANS OF THE ADJUSTM'T SCREWS AT THE SOUTH SUPPORT) BUT THAT MOVED THE WHO FRAME OVER AN EQUAL AMOUNT TOP (SLIT PLATE) AND BOTTOM (SOUTH SUPPORT)

THE CHAIN, FROM WHICH THE FRAME IS SUSPENTED DID NOT ACT AS A PIUOT POINT, IT MERELY MOVED FROM SIDE TO SIDE. SHOULD BE REALLY CLOSE AT PRESENT

WE THEN BROUGHT THE FRAME BACK TO ITS ORIGINAL POSITI AND STARTED LOWERING THE CAMPOLLOWER AT THE SOUTH WEST CORNER OF THE PRAME, APPROX. O.25" CORREC THE MIS ALINGNMENT AT THE 61/2" COLLIMETER BY ABOUT 5/8"

WE COULD NOT LOWER THE CAMPOLLOWER ANYMORE, BECK

9.) IT WAS AT THER END OF ITS TRAVEL.

b) THE CIFT MOTOR OF THE 40" CAMERA CAME TO WITHIN 1/3" CLEARANCE OF THE CENTING.

WE LEPT THE PRAME IN THIS POSITION FOR THE TIME BE I WENT BACK TO THE MOUNTAIN TO SEE IF WE COULD MOVE THE FRAME NORTH, USING THE CAMPOLLOWER AT THE SOUTH-WEST CORNER AS A PINOT POINT.

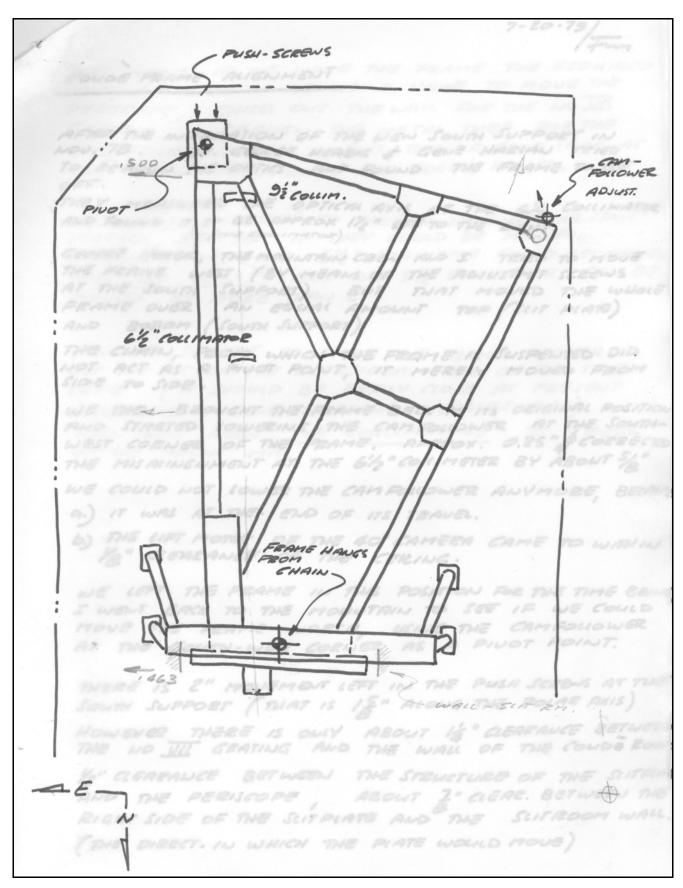
THERE IS 2" MOVEMENT LEFT IN THE PUSH SCREWS AT TH SOUTH SUPPORT (THAT IS 15" ALONG THE POLAR AXIS) HOWEVER THERE IS ONLY ABOUT I'S "CLEARANCE BETWE

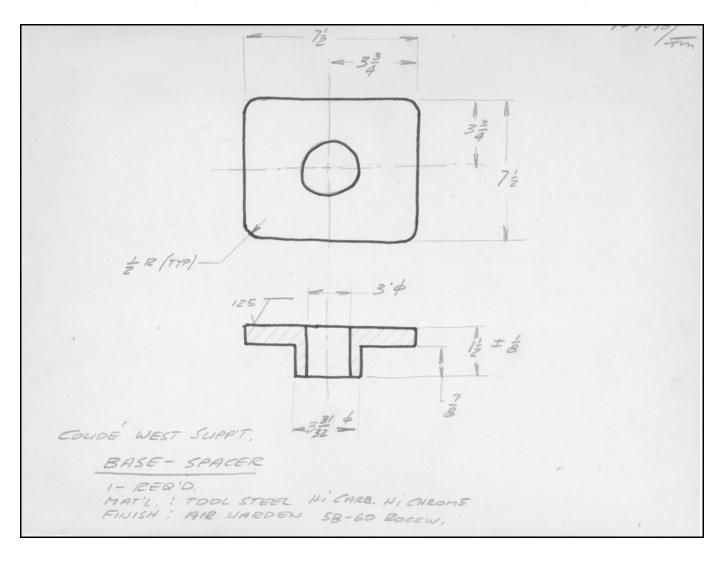
THE NO VII GRATING AND THE WALL OF THE COUDE RO 1/2" CLEARANCE BETWEEN THE STRUCTURE OF THE SLITP AND THE PERISCOPE , ABOUT I CLEAR BETWEEN TH

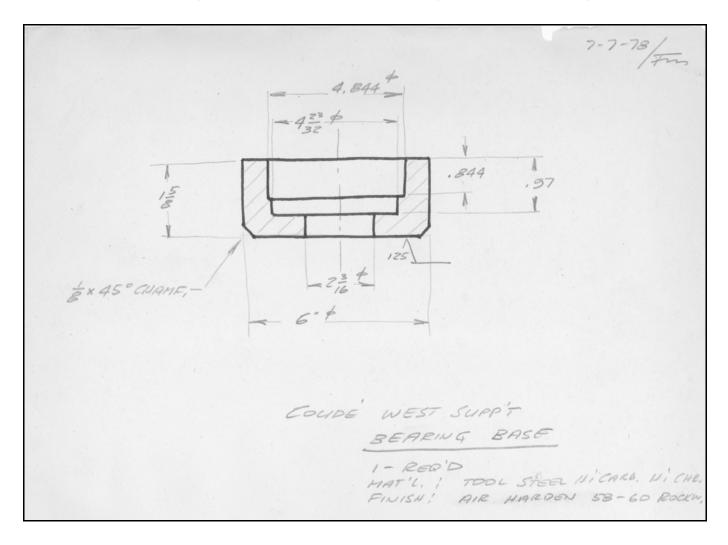
RIGHT SIDE OF THE SCITPLATE AND THE SCITROOM WAS

(THE DIRECT. IN WHICH THE PLATE WOULD MOVE)

THAT MEANS IF WE MOVE THE PRAME THE REQUIRED AMOUNT NORTH - WE WOULD HAVE TO MOVE THE CHISEL OUT THE WALL FOR THE NO WIL PERISCOPE, GRATING. REALIEN THE METAL TUBE FOR THE COMPARISON AND TAKE A GOOD LOOK AT LIGHTS FROM WHICH THE FRAME HANGS, THE CHAIN DR. HERBIG SUGGESTED TO TAKE A 100K AT THE COULT MATORS AND SEE IF THEY COULD BE MOUED. THAT THE 61/2" COLLIMATOR COULD BE MOVED AND THE 91/2" COUINATOR CAN BE EAST BY 0.75" MOVED BY MORE THAN 2" I WOULD SUGGEST TO MOVE THE FRAME ENOUGH TO GET THE SLIT ON THE ROTATIONAL AXIS OF THE TELES-(IT SHOULD BE REALLY CLOSE AT PRESENT ACCORDING TO GENE HARCANS MEASUREMENTS) AND THEN MOVE THE COLLIMATORS OF THE POLAR AXIS







5-3-78
1 Am
GUDE - NEW FRAME SUPPORT
MATERIAL COSTS
WESTERN ST. & CHITING "LARRY" 286-4532
1 PIECE ST. 29 16"TH CLIT & CLEANUP GRD B. S.
2. THE V
135,36
I PIECE ST., 30 x 30 x / CUT & CLEANUP GRD, B.S.
133,84
\$ 133,64
1 PIECE ST. 15 x 6 x 3 CUT \$ 37, 62
1 PIECE ST. 16×16×1/2 CUT # 42.29
1 PIECE ST. 12×6×4 CUT \$ 37.95
1 Piete Sit, iener i con
2 GUSSETS ST, 4×4@45°x1'CUT 4,10 EACH
395,41 TOTAL
45.72
Stul for suran 40.00
fastners 125.00
120 hr 5 hoptime 3000.00
10 28.03
71/2 days (1 NSTALLATED) 875,00 4481.13