

SM-68B TECHNICAL FACILITIES

LITTLE ROCK AFB, ARKANSAS

SITES I THROUGH 18

PHASE II - CONSTRUCTION

VOLUME IV

CONTROL CENTER, ACCESS PORTAL,
PROPELLANT TRANSFER SYSTEM

NOTE:

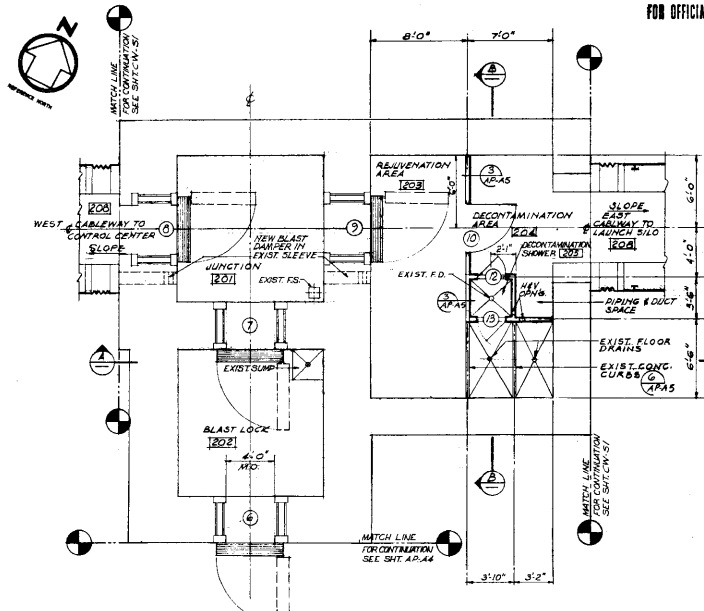
The source historical materials for this set of Blueprints were provided by the courtesy of Mr. Frederick Epler of the National Aerospace Trust (N.A.T.)

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Changes made to source content were limited to removal of scanning blemishes and replacing original blueprint border for consistency. Miscellaneous information such as handwritten notes unrelated to the technical content were also removed to reduce clutter.

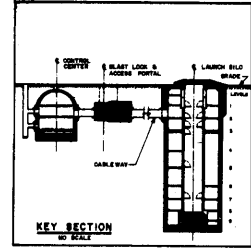
105

FOR OFFICIAL USE ONLY



PLAN OF BLAST LOCK STRUCTURE
1/4"=1'-0"

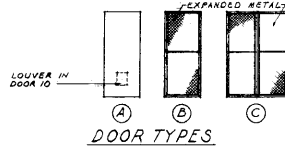
ROOM NUMBER OR AREA DESIGNATION	ROOM FINISH SCHEDULE										REMARKS	
	FLOOR	BASE	WALLS			CEILING						
BLAST LOCK STRUCTURE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	
201 JUNCTION	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	10'-0"
202 BLAST LOCK	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	10'-0"
203 REJUVENATION AREA	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	10'-0"
204 DECONTAMINATION AREA	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	10'-0"
205 DECONTAMINATION SHOWER	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	10'-0"
206 CABLEWAY (EAST & WEST) ACCESS PORTAL	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	9'-0"
101 SECURITY AREA	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	VARIES
209 ACCESS AREA	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	8'-6"
210 MACHINE ROOM	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	8'-0"



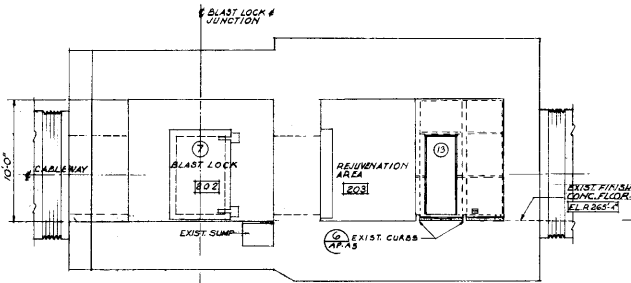
GENERAL NOTES

- FOR ABBREVIATIONS, SEE SHEET G-3
- FOR SYMBOLS, SEE SHEET G-4
- FOR LOCATION AND SIZE OF OPENINGS IN METAL PARTITIONS SEE ELECTRICAL, MECHANICAL & PIPING DRAWINGS.

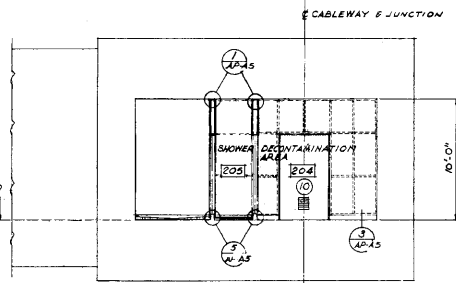
DOOR NUMBER	DOOR SCHEDULE									
	TYPE	OPENING DIMENSION	SWICK	MATERIAL	FRAME DETAILS			LOUVER SIDE	HARDWARE	REMARKS
1	A	3'-0" x 7'-0"	FR	HOLLOW METAL	4-ADAS	3-ADAS	3-ADAS	NW 2	ELECT. INTERLOCKED	
2	B	3'-0" x 7'-0"	FR	EXPANDED METAL	4-ADAS	3-ADAS	3-ADAS	NW 3	ELECT. INTERLOCKED	
3	C	PAIR 5'-0" x 7'-0"	FR	EXPANDED METAL	4-ADAS	3-ADAS	3-ADAS	NW 4		
4		4'-0" x 6'-6"		STEEL					EXIST. BLAST LOCK DOOR	
5		4'-0" x 6'-6"		STEEL					EXIST. BLAST LOCK DOOR	
6		4'-0" x 6'-6"		STEEL					EXIST. BLAST LOCK DOOR	
7		4'-0" x 6'-6"		STEEL					EXIST. BLAST LOCK DOOR	
8		4'-0" x 6'-6"		STEEL					EXIST. BLAST LOCK DOOR	
9		4'-0" x 6'-6"		STEEL					EXIST. BLAST LOCK DOOR	
10	A	4'-0" x 7'-0"	FR	HOLLOW METAL	4-ADAS	3-ADAS	3-ADAS	NW 5		
12	A	2'-4" x 6'-6"	FR	HOLLOW METAL	4-ADAS	3-ADAS	3-ADAS	NW 6		
13	A	2'-4" x 6'-6"	FR	HOLLOW METAL	4-ADAS	3-ADAS	3-ADAS	NW 6		



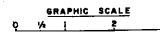
DOOR TYPES



SECTION A
1/4"=1'-0"

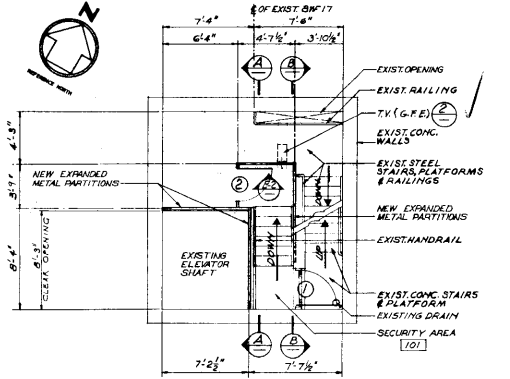


SECTION B
1/4"=1'-0"

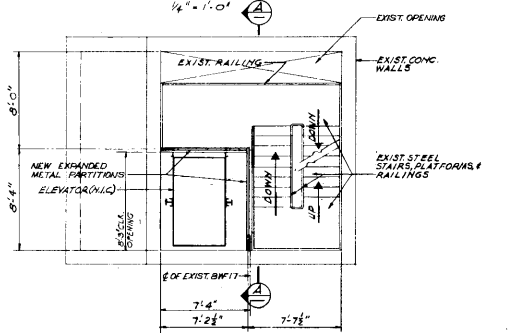


DATE: 11/15/78
BY: [Signature]

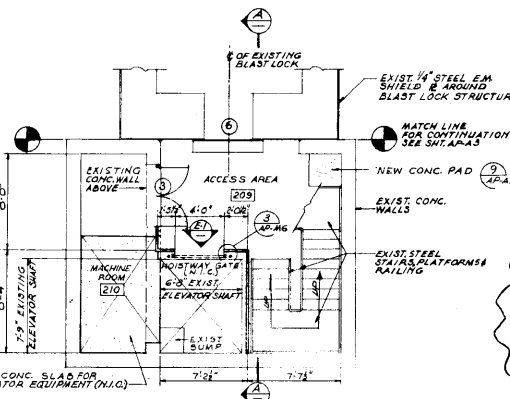
REVISION NO.	DATE	DESCRIPTION	AGENCY	BY
PARSONS-GARVER & GARVER		DEPARTMENT OF THE AIR FORCE		
ARCHITECTS-ENGINEERS		AIR FORCE BALLISTIC MISSILE DIVISION (AFBC)		
LITTLE ROCK, ARKANSAS		HOLWOOD, CALIFORNIA		
E. NECHLES		SM-68B TECHNICAL FACILITIES		
LAP-AS		LITTLE ROCK AFB, ARKANSAS		
DRAWN BY: DIG/LL		BLAST LOCK STRUCTURE		
CHECKED BY: [Signature]		PLAN, SECTIONS AND SCHEDULES		
DATE: 11/15/78		PROJECT NO. 68-01-42		
SCALE: AS NOTED		SHEET 43		



PLAN AT PLATFORM 1
1/4" = 1'-0"

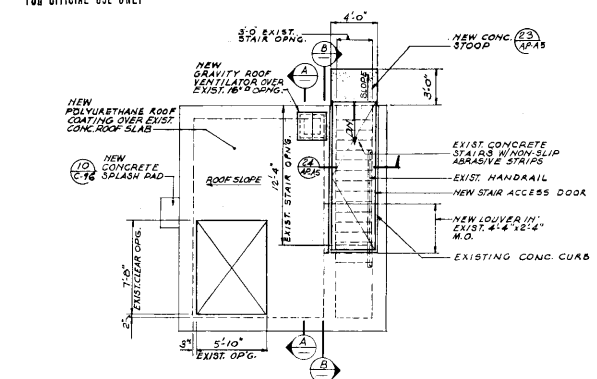


PLAN AT PLATFORM 2
1/4" = 1'-0"

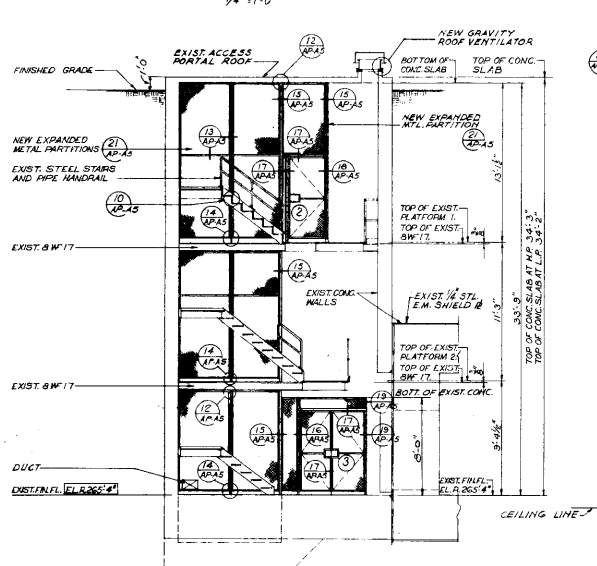


PLAN AT BOTTOM OF ACCESS PORTAL
1/4" = 1'-0"

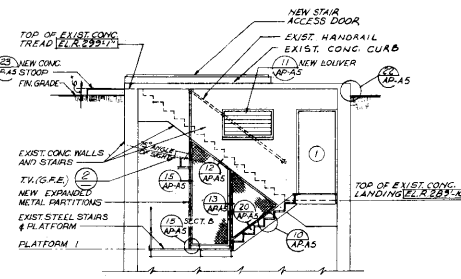
Source Courtesy of Fred Epler, N.A.T.



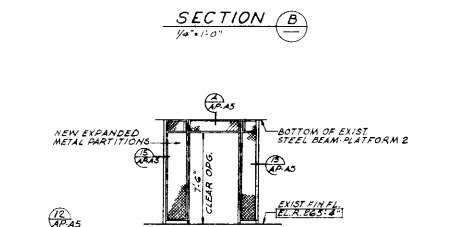
ROOF PLAN
1/4" = 1'-0"



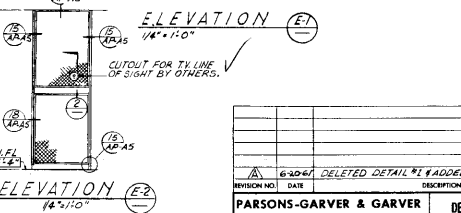
SECTION A
1/4" = 1'-0"



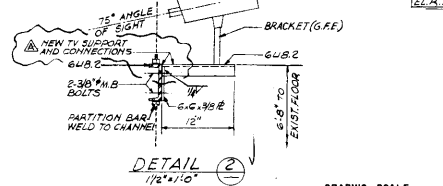
SECTION B
1/4" = 1'-0"



ELEVATION E-1
1/4" = 1'-0"



ELEVATION E-2
1/4" = 1'-0"

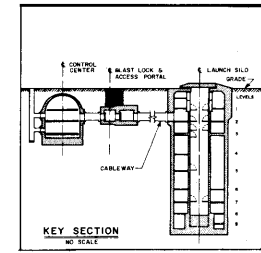


DETAIL 2
1/2" = 1'-0"

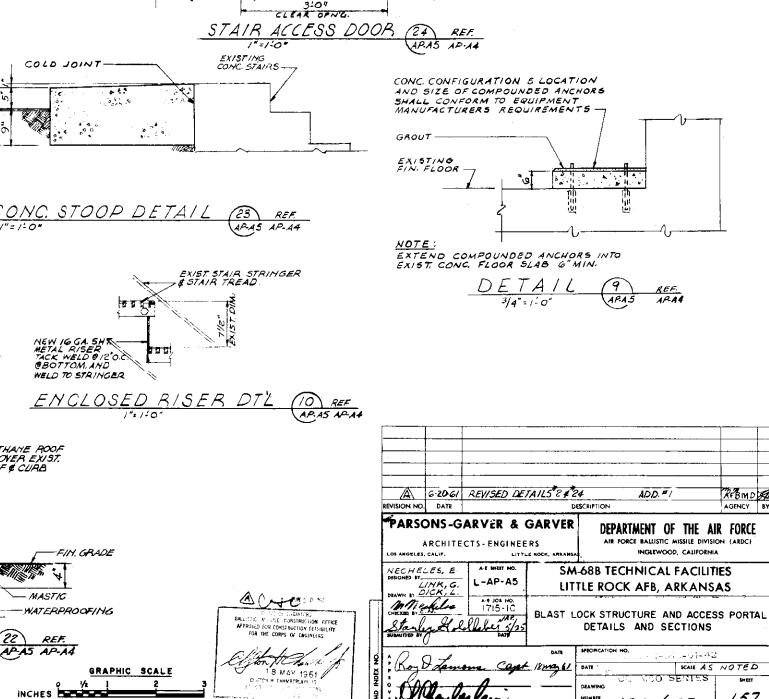
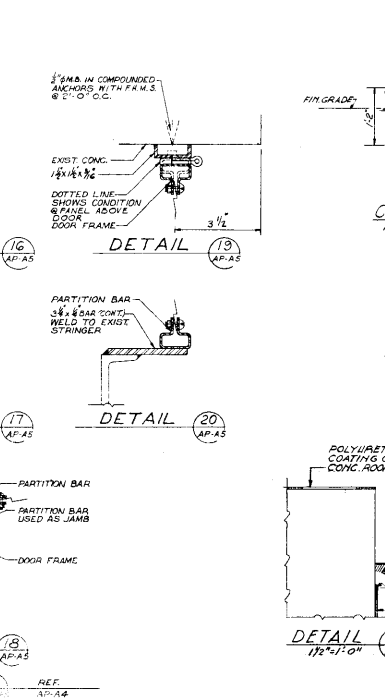
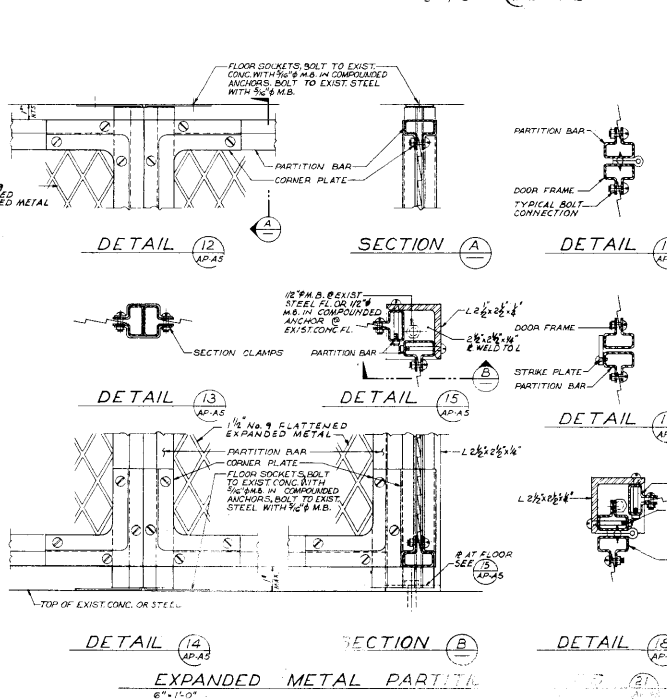
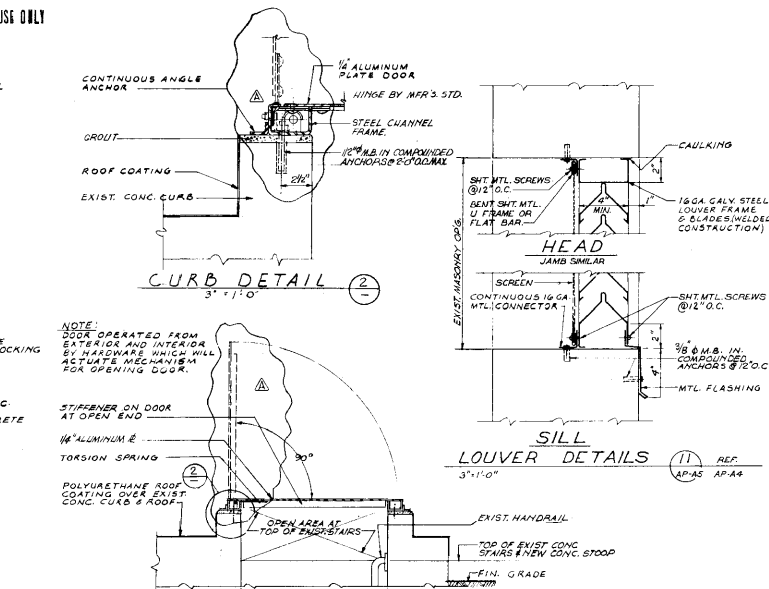
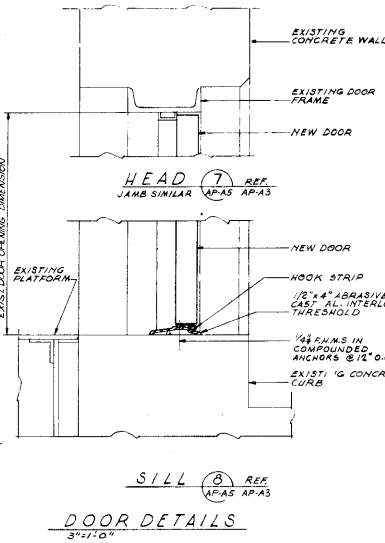
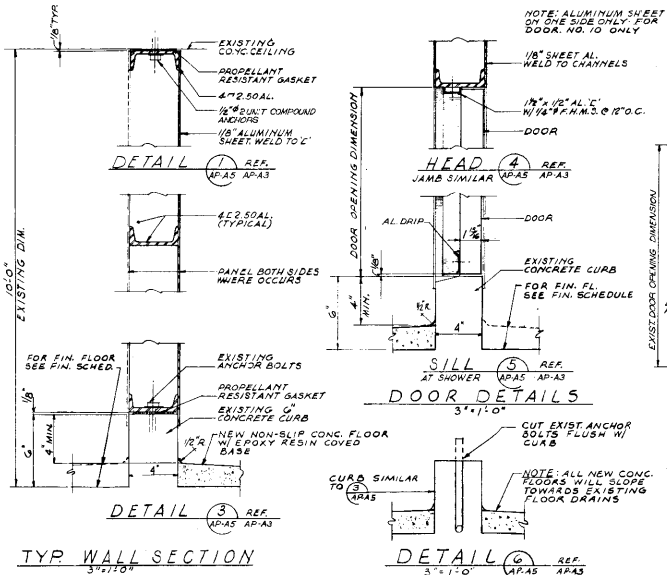
GRAPHIC SCALE
0 1/4 1 2 3

GENERAL NOTES

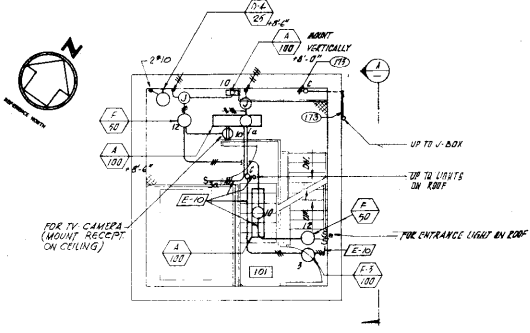
- FOR DOOR AND ROOM FINISH SCHEDULES, SEE SHEET AP-AS.
- FOR ABBREVIATIONS, SEE SHEET G-3.
- FOR SYMBOLS, SEE SHEET G-4.
- FOR LOCATION & SIZE OF OPENINGS, SEE MECHANICAL & STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY STAIR OPENING DIMENSIONS IN FIELD.
- WATER PROOFING SHALL MATCH EXISTING AND SHALL BE APPLIED TO THE EXTERIOR SURFACES. SEE DETAIL (2).
- ALL ITEMS INDICATED AS 'NEW' ARE TO BE INSTALLED UNDER THIS CONTRACT.



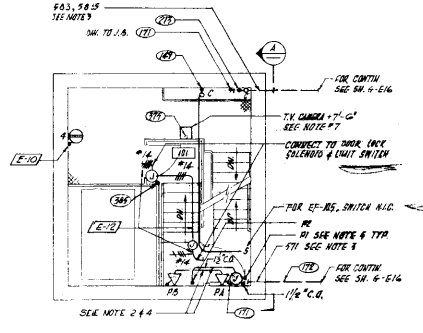
REVISION NO.	DATE	DESCRIPTION	AGENCY
6-20-64		DELETED DETAIL #1 ADDED NOTE TO DETAIL #2	
PARSONS-GARVER & GARVER		DEPARTMENT OF THE AIR FORCE	
ARCHITECTS - ENGINEERS		AIR FORCE BALISTIC MISSILE DIVISION (AMBD)	
SM-688 TECHNICAL FACILITIES		LITTLE ROCK AFB, ARKANSAS	
ACCESS PORTAL		PLANS AND SECTIONS	
DATE: 11-10-64		SCALE: AS NOTED	



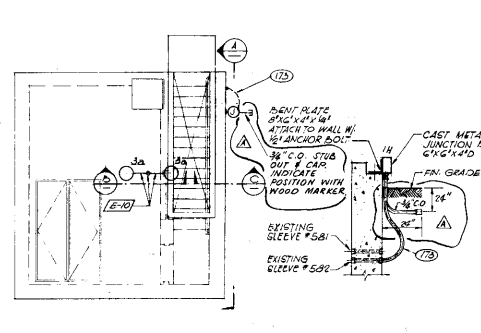
REVISION NO.	DATE	DESCRIPTION	ADD. #	APPROVED BY	AGENCY
6-20-61		REVISED DETAILS			
PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS 4300 WASHINGTON, D.C. LITTLE ROCK, ARKANSAS			DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (AFBD) INGLEWOOD, CALIFORNIA		
NECHLES, E. ENGINEER LITTLE ROCK, ARKANSAS			SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS		
BLAST LOCK STRUCTURE AND ACCESS PORTAL DETAILS AND SECTIONS			DRAWING NO. 12 R 157 SHEET 157		



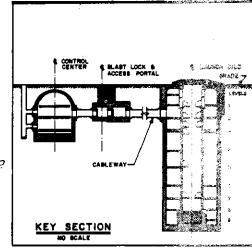
PLAN AT PLATFORM 1



PLAN AT PLATFORM 1

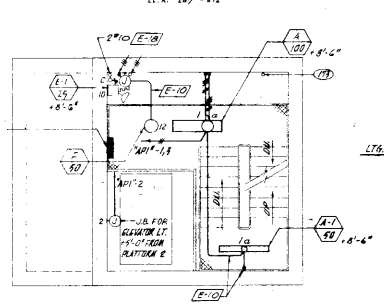


SECTION C

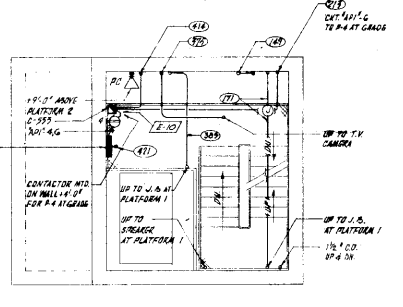


KEY SECTION

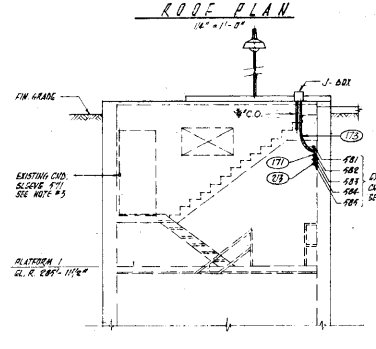
SCHEDULE - LIGHTING PANEL... Table with columns for PANEL NO., TYPE LAMP & LOCATION, WATT, and NOTES. Includes a total panel load in watts.



PLAN AT PLATFORM 2

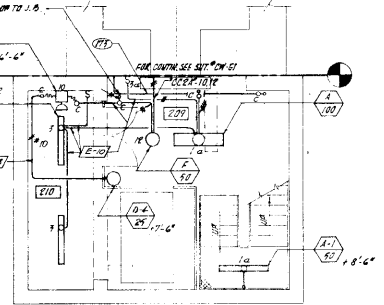


PLAN AT PLATFORM 2

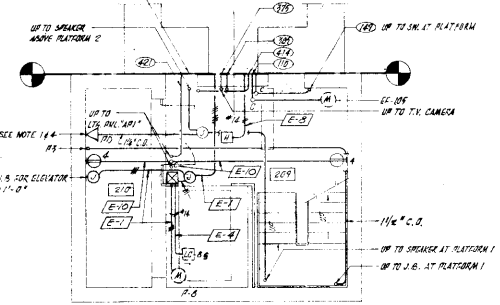


SECTION A

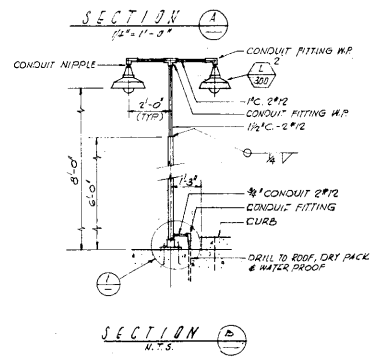
- NOTES: 1. INSTALL VES SYSTEM OUTLETS 18" BELOW CEILING... 2. MIN. COND. SIZE FOR TEL. SYS. SYSTEM SHALL BE 3/8" UNLESS OTHERWISE NOTED... 7. TV CAMERA UNIT SUPPLIED WITH MOUNTING UNIVERSAL FOR MOUNTING SUPPORT SEC. 44



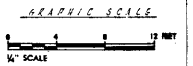
PLAN AT BOTTOM OF ACCESS PORTAL



PLAN AT BOTTOM OF ACCESS PORTAL



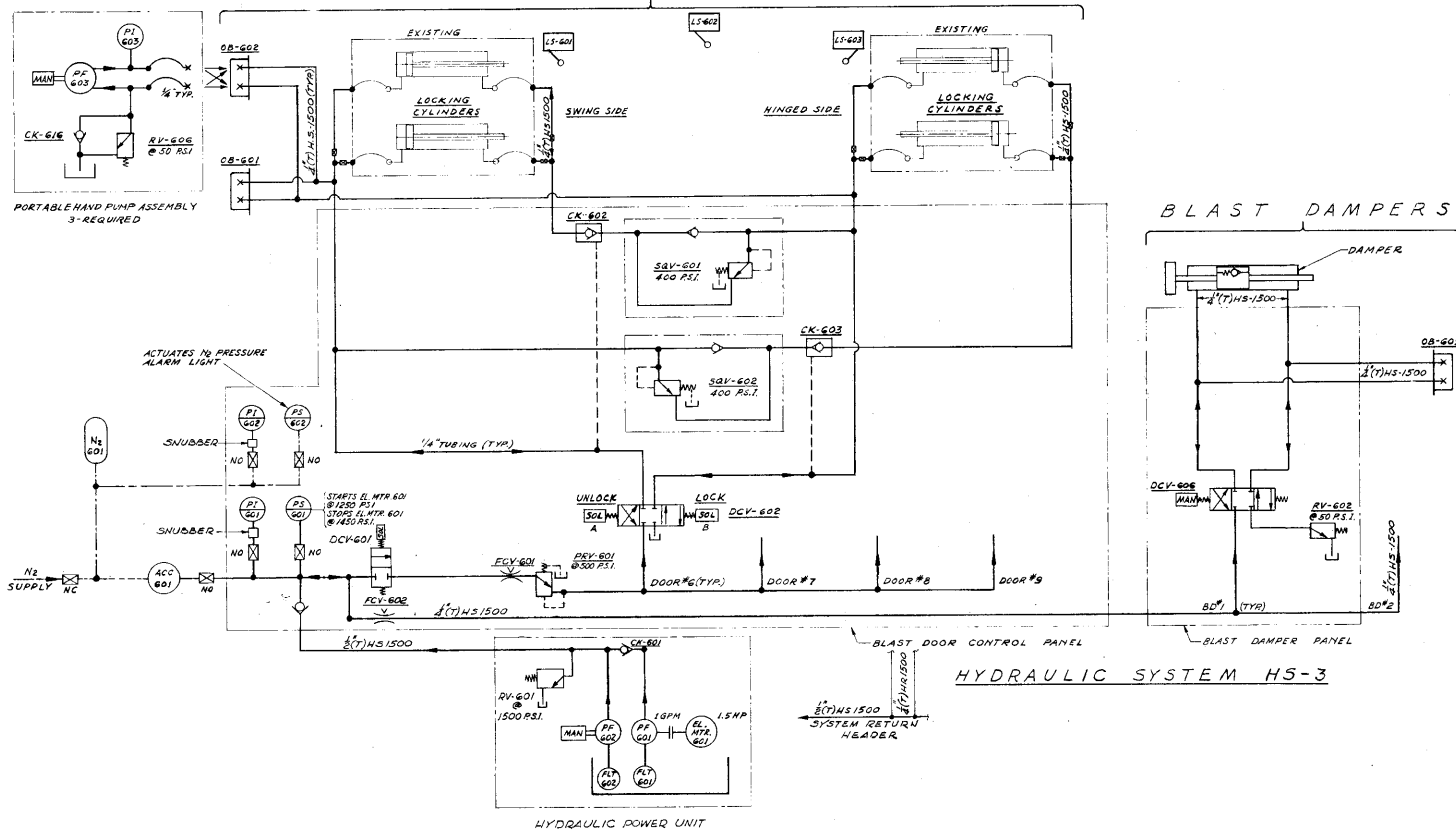
SECTION B



PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS. DEPARTMENT OF THE AIR FORCE. SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS. ACCESS PORTAL LIGHTING, POWER, ALARM & COMMUNICATION PLANS.

BLAST DOORS

FOR OFFICIAL USE ONLY



DESCRIPTION AND SEQUENCE OF OPERATION.

- ### A. BLAST DOORS
- DOORS OPENED AND CLOSED MANUALLY.
 - HYDRAULIC CYLINDERS ACTUATE DOOR LOCKING MECHANISMS.
 - ENERGY STORED IN HYDRAULIC ACCUMULATOR ACC-601.
 - ACC-601 CHARGED AUTOMATICALLY BY POWER UNIT.
 - LOCKING AND UNLOCKING INITIATED BY PUSH BUTTON.
 - CYLINDERS ARE SEQUENCED, SWING-SIDE LOCKS FIRST AND UNLOCKS LAST, HINGED-SIDE LOCKS LAST AND UNLOCKS FIRST.
 - INTERLOCK: DOOR #6 WITH DOOR #7 MUTUALLY, AND DOOR #8 WITH DOOR #9 MUTUALLY.

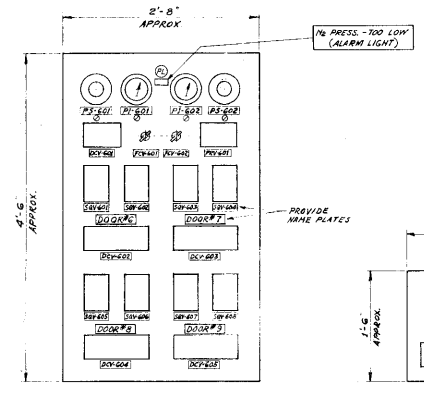
- ### B. BLAST DAMPERS (BD)
- EMERGENCY OPERATION: BD'S CLOSED BY BLAST AND HELD CLOSED BY HYDRAULIC SYSTEM AUTO MANUALLY, OPENED MANUALLY.
 - MAINTENANCE OPERATION: CLOSING AND OPENING BY HYDRAULIC SYSTEM, IF MANUAL 4-WAY VALVE ACTUATED.

- ### C. PORTABLE HAND PUMP ASSEMBLY
- MANUAL OPERATION OF BLAST DOORS AND DAMPERS HYDRAULIC SYSTEMS IN CASE OF POWER FAILURE.

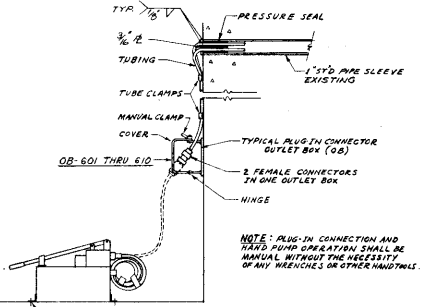
GENERAL NOTES

- FOR GRAPHICAL SYMBOLS AND ABBREVIATIONS SEE SHEET NG-G-MS.
- FOR PRESSURE RATINGS, CAPACITIES AND FOR OTHER DATA AND INSTRUCTIONS SEE SPECIFICATIONS.
- FOR ELECTRICAL CONTROL DIAGRAM SEE SHEET NG-G-EG...
- THE DESIGNATION OF COMPONENTS SHALL CONFORM TO THE NOTES ON SHEET NG-G-MS. DOOR #6 AND BLAST DAMPER BD #1 ARE TYPICAL FOR CIRCUITRY AND FOR NUMBERINGS.
- BLAST DOOR LOCKING MECHANISMS AND CYLINDERS ARE PART OF PANELS.
- FOR PHYSICAL LOCATION OF COMPONENTS, ROUTING OF LINES AND INSTALLATION DETAILS SEE SHEET NG-AP-MT.
- PROVIDE AIR VENT VALVES AT THE HIGH POINTS AND DRAIN VALVES AT THE LOW POINTS OF THE HYDRAULIC PIPING SYSTEMS.
- TUBING INFORMATION: CONNECTING TUBING BETWEEN POWER UNIT AND VALVE PANELS AND FROM VALVE PANELS TO BLAST DOORS AND BLAST VALVES, ARE NOT G.F.E.
- SEMI AUTOMATIC BLEEDER VALVE SHALL BE PROVIDED IN HIGH POINTS OF ALL HYDRAULIC CAVITIES.

HYDRAULIC POWER UNIT



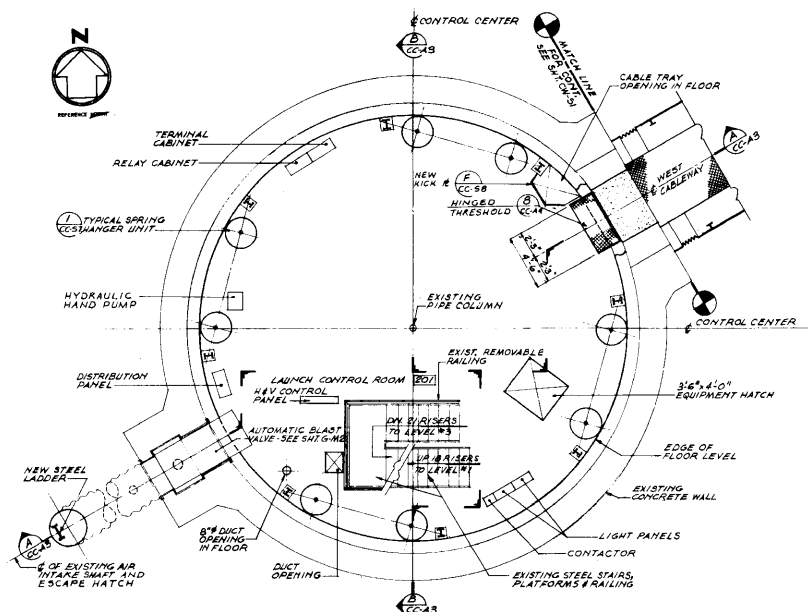
DETAIL 1 REF.



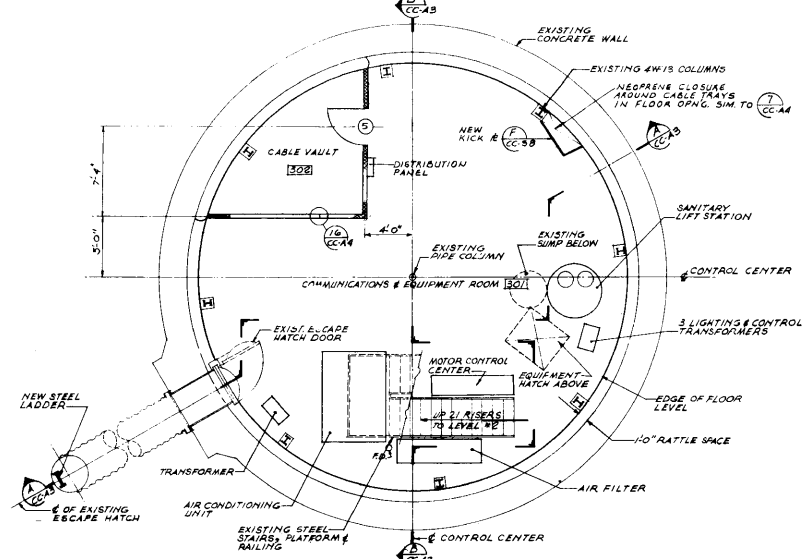
TYPICAL DETAILS 3 APMS
N.T.S.
PORTABLE HAND PUMP ASSEMBLY 3-REQUIRED

FOR INSTALLATION INFORMATION ONLY

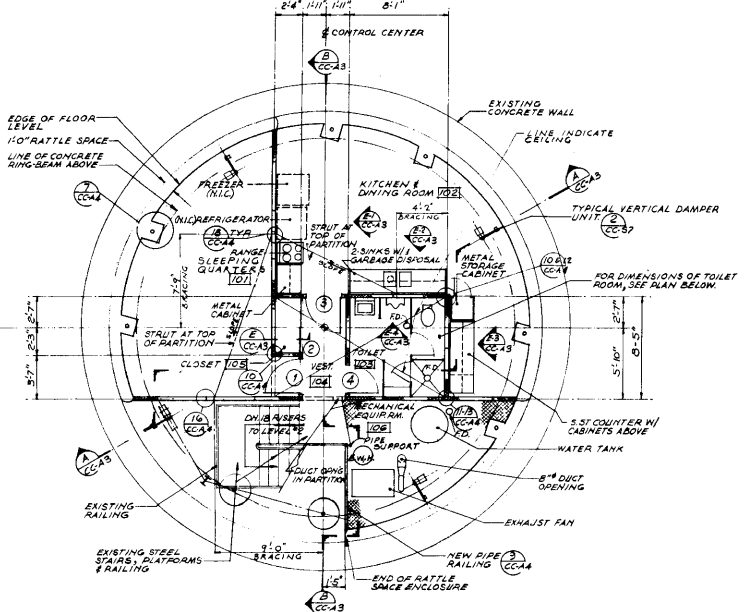
ASSEMBLIES ON THIS SHEET			
G.F.E.			
EXCEPT LS 601, LS 602, LS 603			
REVISED BY	DATE	DESCRIPTION	AGENCY
AS-606		ADDED NOTE, CHANGED SHEET AND FROM (C) TO (C) COPY	AFSC/AFM
AS-604		CHANGED NOTE	AFSC/AFM
PARSONS-GARVER & GARVER		DEPARTMENT OF THE AIR FORCE	
ARCHITECTS-ENGINEERS		AIR FORCE BALLISTIC MISSILE DIVISION (ARDC)	
LITTLE ROCK, ARKANSAS		INGLWOOD, CALIFORNIA	
DESIGNED BY	DATE	PROJECT NO.	SCALE
CHOTI	APR 2 1961	SM-688	TECHNICAL FACILITIES
AP-MS			LITTLE ROCK AFB, ARKANSAS
BLAST LOCK STRUCTURE		BLAST DOOR	
HYDRAULIC - FLOW DIAGRAM		TITLE NO.	
DATE		PERMANENT	
APR 7 1961		01-543-31-42	
DATE		PAGE	
APR 7 1961		AS NOTED	



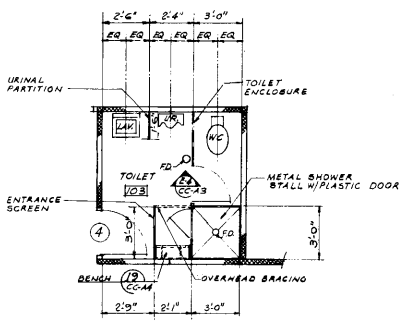
SECOND LEVEL
1/4" = 1'-0" FIN. R. 224-8"



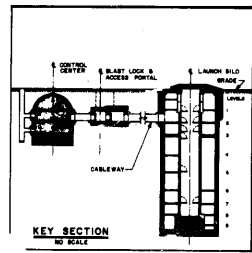
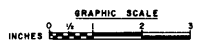
THIRD LEVEL
1/4" = 1'-0" FIN. R. 225-6"



FIRST LEVEL
1/4" = 1'-0" FIN. R. 225-11"



PLAN OF TOILET
3/8" = 1'-0"



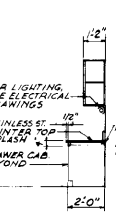
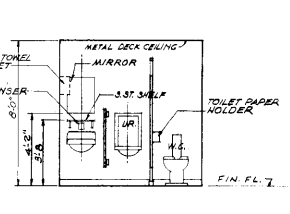
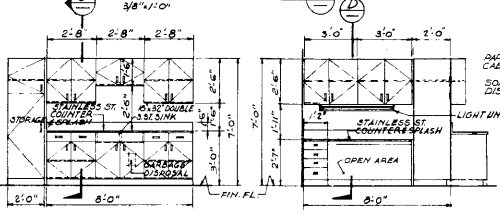
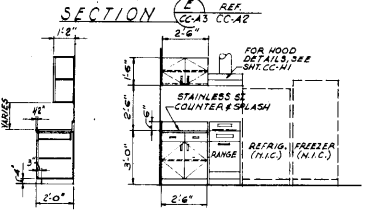
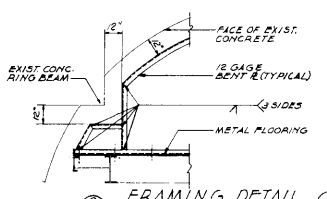
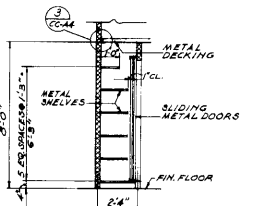
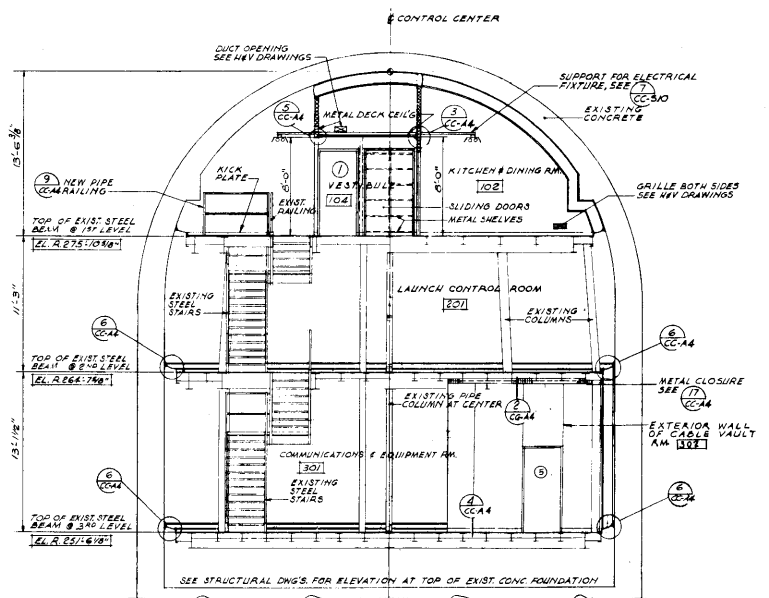
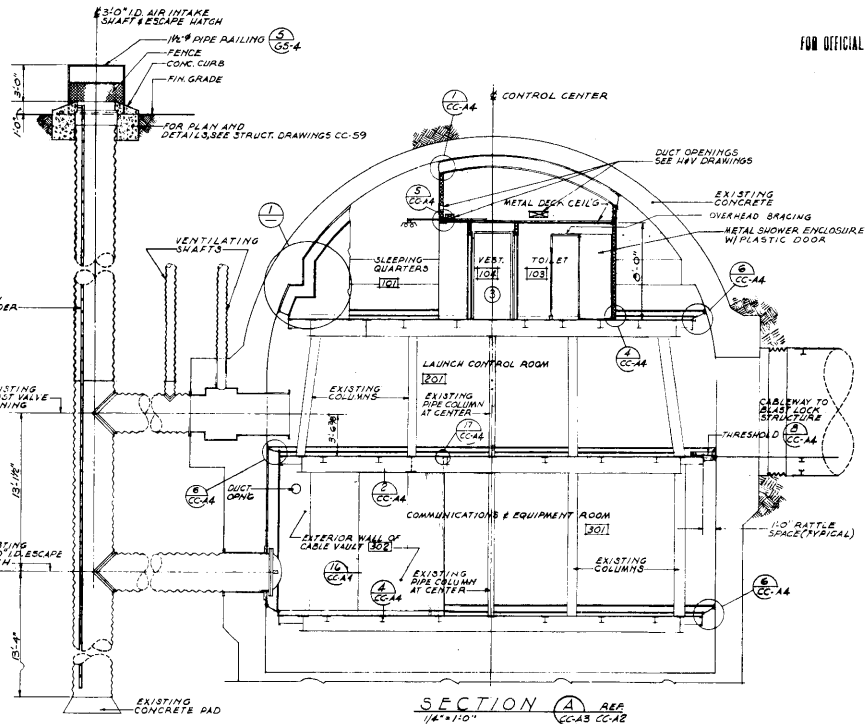
GENERAL NOTES

1. FOR EQUIPMENT NOTED, SEE M&E ELECTRICAL & PIPING SHEETS.
2. FOR DOOR AND ROOM SCHEDULES, SEE SHEET CC-A4.
3. FOR LOCATION & SIZE OF OPENINGS IN METAL PARTITIONS, SEE ELECTRICAL & H.V. DRAWINGS.
4. FOR LOCATION & SIZE OF OPENINGS IN FLOORS AND CONCRETE, SEE STRUCTURAL DRAWINGS.
5. FOR SYMBOLS, SEE SHT. G-4.
6. FOR ABBREVIATIONS, SEE SHT. G-3.
7. METAL CABINETS TO BE FINISHED TO PARTITIONS AS PER MANUFACTURER'S RECOMMENDATION.
8. ~~INDICATES~~ INDICATES METAL PARTITIONS. FOR DETAILS SEE SHT. CC-A4.
9. FOR PLAN OF 1ST LEVEL ELECTRICAL FIXTURE SUPPORTS SEE STRUCT. DNG. CC-B8.

REVISION NO.	DATE	DESCRIPTION	FORNRY	BY

PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS LITTLE ROCK, ARKANSAS		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (AROC) HUNTERDOME, CALIFORNIA	
DESIGNED BY: <i>E. NICHOLE</i>	DATE: 11/15/62	PROJECT NO.: L-CC-A2	SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB ARKANSAS
CHECKED BY: <i>[Signature]</i>	DATE: 1/23/63	SCALE: AS NOTED	CONTROL CENTER PLANS
DRAWN BY: <i>[Signature]</i>		DATE: 1/23/63	ENGINEERING: ENG. 04-548-61-62
APPROVED BY: <i>[Signature]</i>		DATE: 1/23/63	REVISION: 1/23/63
DATE: 1/23/63		SCALE: AS NOTED	1/35

COPIES OF DRAWINGS
MAY BE MADE FOR INFORMATION PURPOSES
BUT NOT FOR CONSTRUCTION PURPOSES
UNLESS SPECIFICALLY NOTED OTHERWISE



SECTION C ELEVATION REF CC-A3 CC-A2
KITCHEN & DINING ROOM
3/8" x 1/4"

ELEVATION REF CC-A3 CC-A2

ELEVATION REF CC-A3 CC-A2
TOILET
3/8" x 1/4"

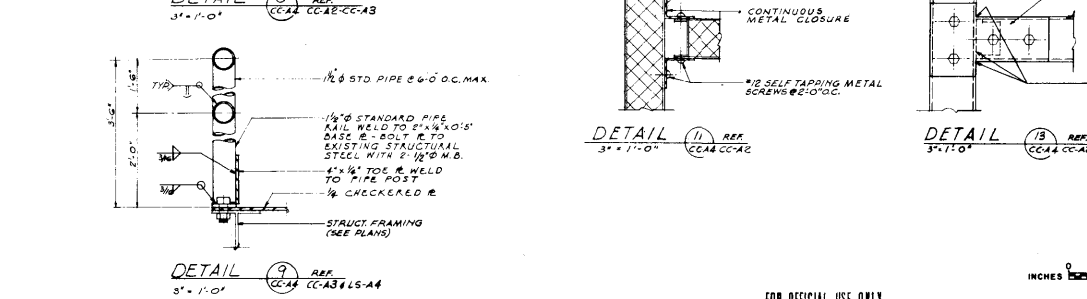
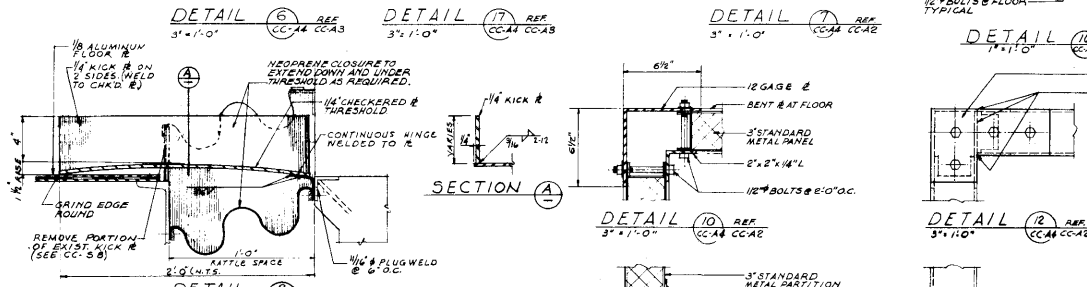
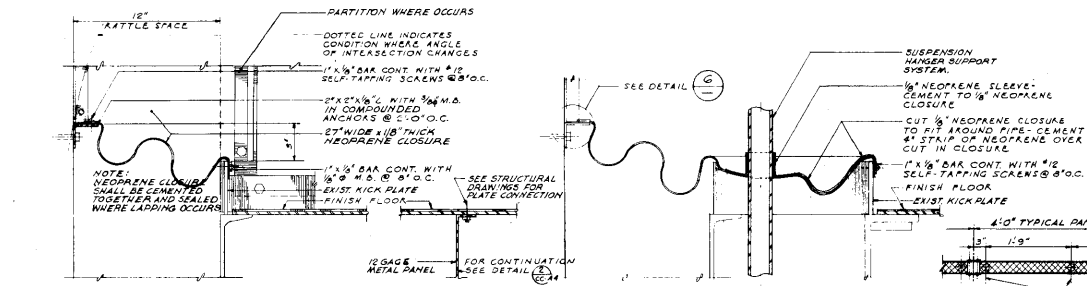
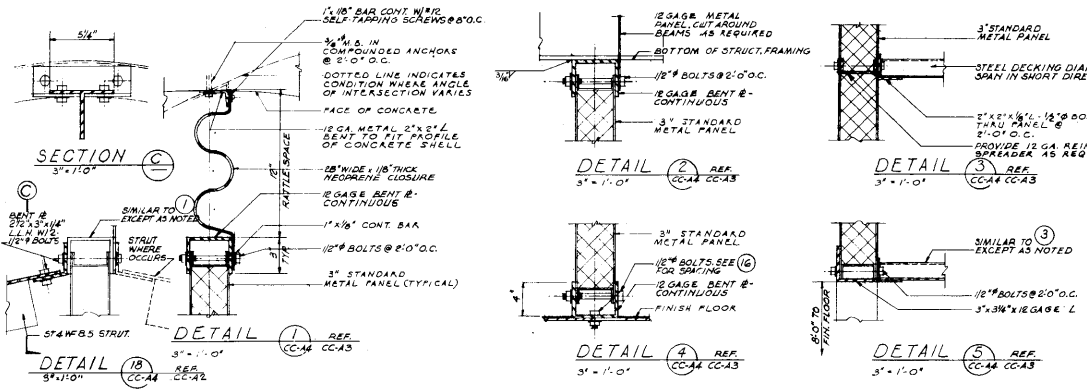
SECTION D REF CC-A3 CC-A2

SECTION B REF CC-A3 CC-A2

REVISION NO.	DATE	DESCRIPTION	AGENCY	BY

PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS		DEPARTMENT OF THE AIR FORCE AIR FORCE BARRACKS HUSBAND HARBOR INDLEWOOD, CALIFORNIA	
PROJECT NO. L-CC-A3	DATE 1715-1C	SM-688 TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS	
CONTROL CENTER SECTIONS AND ELEVATIONS		DRAWING NO. ENG. 04-1342-01-132	
DATE 12/3/36		SHEET 136	

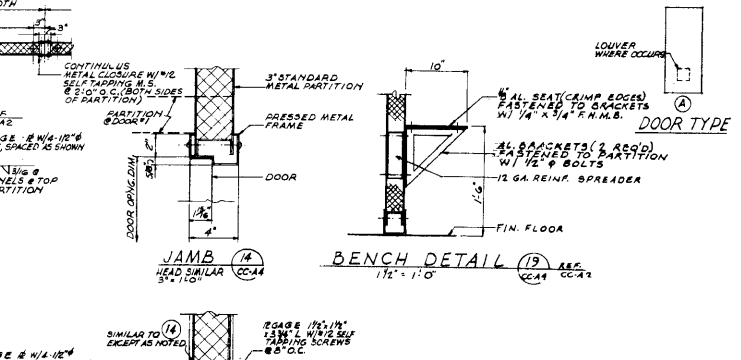




ROOM FINISH SCHEDULE										
ROOM NUMBERS	DESCRIPTION	FLOOR		BASE		WALLS		CEILING		REMARKS
		FINISH	CONSTRUCTION	EXISTING METAL	NEW CONCRETE	EXISTING METAL PARTITIONS	NEW METAL PARTITIONS	EXISTING METAL DECKING	NEW METAL DECKING	
FIRST LEVEL										
101	SLEEPING QUARTERS									VARIABLE
102	KITCHEN & DINING ROOM									VARIABLE
103	TOILET ROOM									8'-0"
104	RESTROOM									8'-0"
105	CLOSET									8'-0"
106	MECHANICAL EQUIPMENT ROOM									VARIABLE - SEE NOTE 1
SECOND LEVEL										
201	LAUNCH CONTROL ROOM									11'-2 1/2"
THIRD LEVEL										
301	COMMUNICATIONS & EQUIPMENT ROOM									13'-1 1/2"
302	CABLE TURTLE									13'-1 1/2"

NOTE 1: STEEL CHECKERED FLOOR & PATTERNS SHALL MATCH EXISTING STAIR PLATFORM.

DOOR SCHEDULE									
DOOR NO.	DOOR TYPE	OPENING DIMENSION	THICKNESS	MATERIAL	FRAME DETAILS	LOUVER SCHEDULE	HEADWARD	SWARD	REMARKS
1	A	5'-0" x 7'-0"	1 1/2"	HOLLOW METAL	1/2" ALUMINUM				HW 10
2	A	6'-0" x 7'-0"	1 1/2"	METAL	1/2" ALUMINUM				HW 10 SLIDING DOORS
3	A	5'-0" x 7'-0"	1 1/2"	HOLLOW METAL	1/2" ALUMINUM				HW 10
4	A	2'-0" x 7'-0"	1 1/2"	HOLLOW METAL	1/2" ALUMINUM				HW 8
5	A	5'-0" x 7'-0"	1 1/2"	HOLLOW METAL	1/2" ALUMINUM				HW 9



REVISION NO. DATE DESCRIPTION AGENCY BY

PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS
 1715 L STREET, SUITE 100, WASHINGTON, D.C. 20005
 L-CC-44

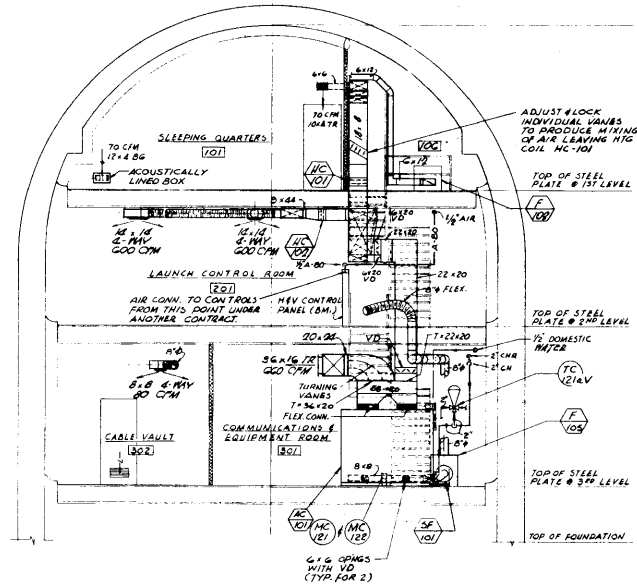
DEPARTMENT OF THE AIR FORCE
 AIR FORCE BALLISTIC MISSILE DIVISION (ARBC)
 WASHINGTON, CALIFORNIA

SM-688 TECHNICAL FACILITIES
 LITTLE ROCK AFB, ARKANSAS

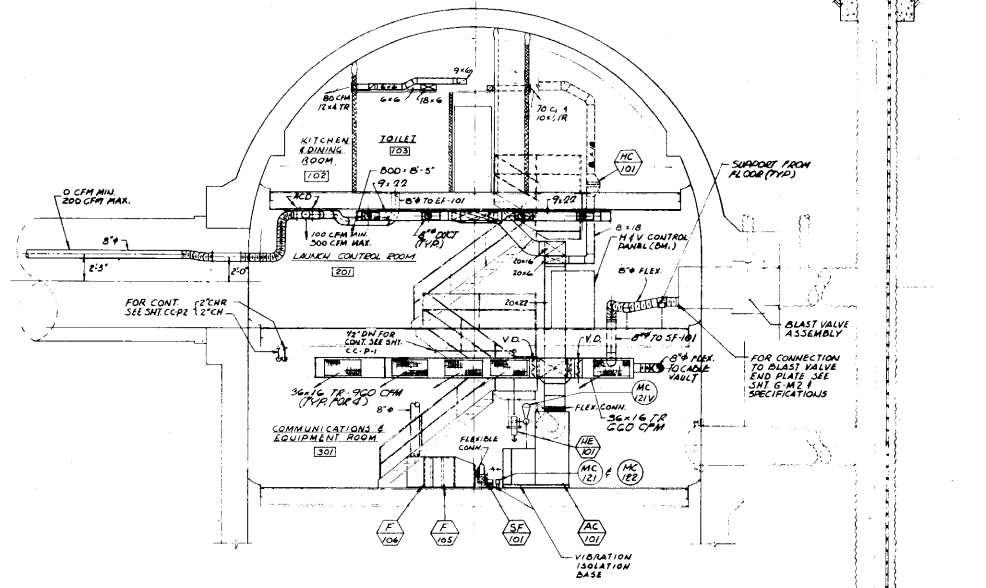
CONTROL CENTER
 DETAILS AND SCHEDULES

GRAPHIC SCALE
 INCHES 0 1/4 1/2 3/4 1

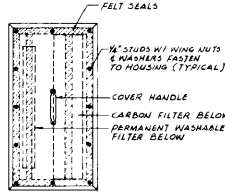
DATE: 12/31/57
 DRAWN: [Signature]
 CHECKED: [Signature]



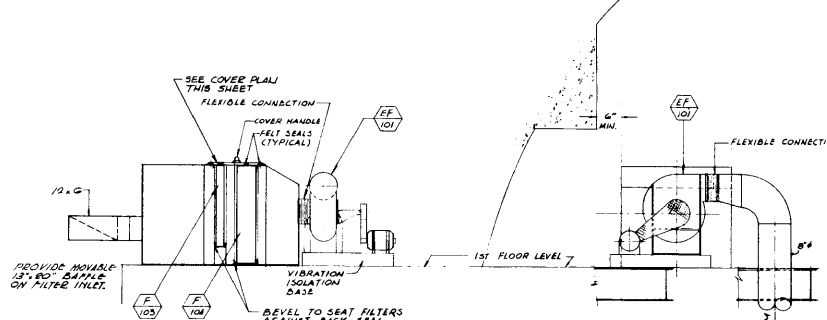
SECTION B REF. 1/4" x 1'-0" CC-NR CC-HI



SECTION A REF. 1/4" x 1'-0" CC-NR CC-HI

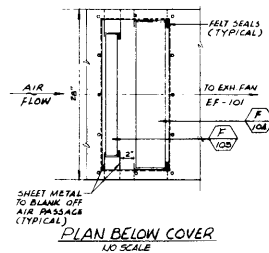


COVER PLAN 1/8" SCALE

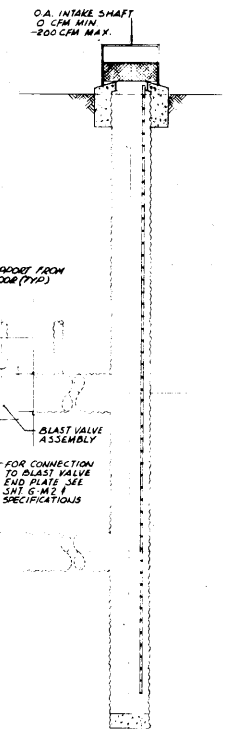


SECTION C REF. 1/8" SCALE CC-NR CC-HI

SECTION D REF. 1/8" SCALE CC-NR CC-HI



PLAN BELOW COVER 1/8" SCALE

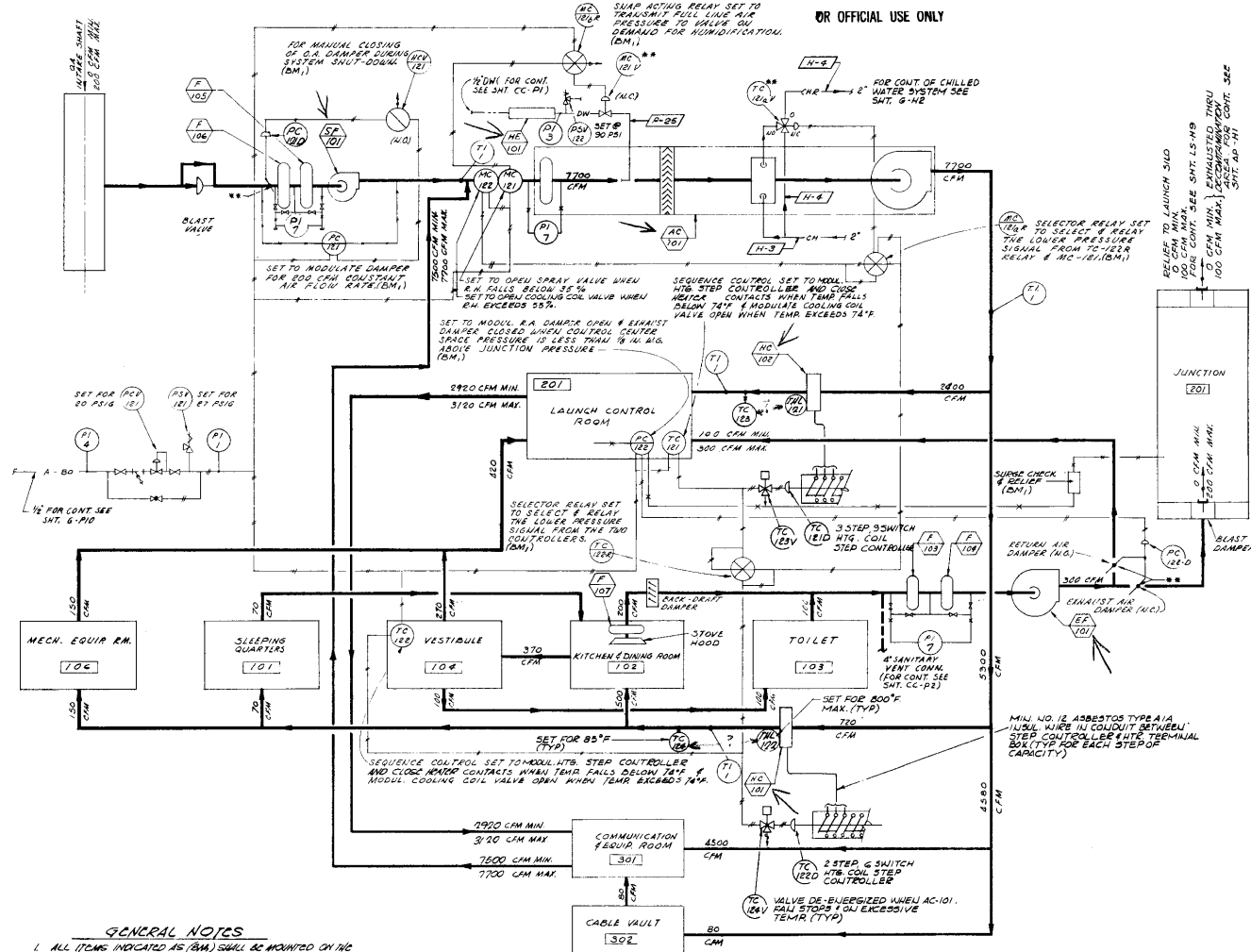


GENERAL NOTES
 1. FOR GENERAL NOTES SEE SHEET CC-N-1

REVISION NO.	DATE	DESCRIPTION	AGENCY	BY

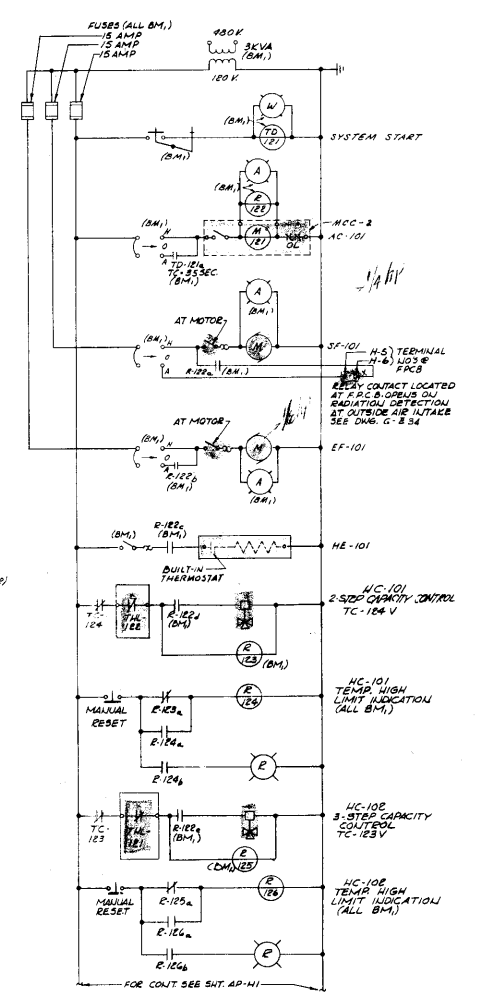
PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS 220 MARSH, CALIF. LITTLE ROCK, ARKANSAS		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (AMBD) HOLLYWOOD, CALIFORNIA	
PROJECT NO. L-CC-NR		SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS	
DRAWN BY: [Signature]		CONTROL CENTER SECTIONS & DETAILS	
CHECKED BY: [Signature]		DESIGNER: [Signature]	
DATE: 1/15/68		SCALE: AS NOTED	
PROJECT: 123/145		SHEET: 145	

OR OFFICIAL USE ONLY



GENERAL NOTES

1. ALL ITEMS INDICATED AS (BM) SHALL BE MOUNTED ON THE MAIN CONTROL BOARD LOCATED ON THE SECOND LEVEL OF THE CONTROL CENTER (ALL NIC).
2. ALL ELECTRICAL ITEMS SHOWN OMISSION OR EXCEEDED BY CHANGED LINES SHALL BE PROVIDED & INSTALLED UNDER THE "ELECTRICAL WORK - INTERIOR" SECTION OF SPEC.
3. ONE-TEMP-HIGH LIMIT THERMOSTAT SHALL BE PROVIDED WITHIN 10" OF EACH HEATING COIL BANK. THERMOSTAT SHALL BE ELECTRICALLY COULECTED AND TERMINATED AT TERMINALS IN CONTROL ROOM. ALL PROVIDED FROM MOTOR COILS.
4. FOR OTHER GENERAL NOTES SEE SHT. CC-11.
5. AUTOMATIC CONTROL ITEMS MARKED WITH DOUBLE ASTERISK (**) SHALL BE G.E. UNLESS OTHERWISE SPECIFICALLY NOTED. ALL OTHER CONTROL ITEMS INCLUDING TEMP & PRESS. INDICATORS, PNEUMATIC & ELECTRIC INTERLOCKS SHALL BE A.I.C.
6. FOR ADDITIONAL NOTES SEE SHT. CC-11.
7. SEE SHEET G-4 FOR COILS COILING MARKINGS. USE [BT] ON DUCTS OVER 30" CIRCUMFERENCE, [L-2] ON DUCTS 30" CIRCUMFERENCE & SMALLER.

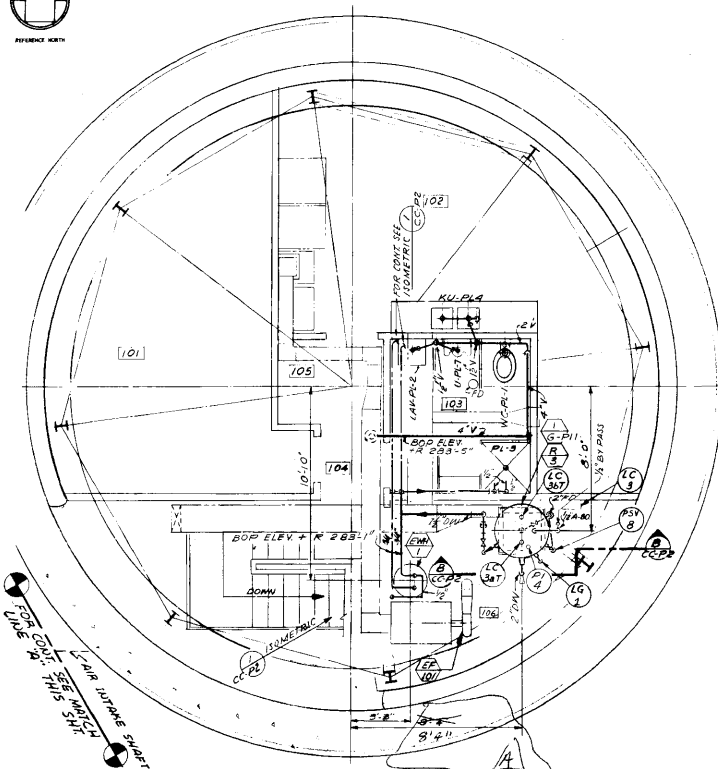


REVISION	DATE	DESCRIPTION	AGENCY	INIT.

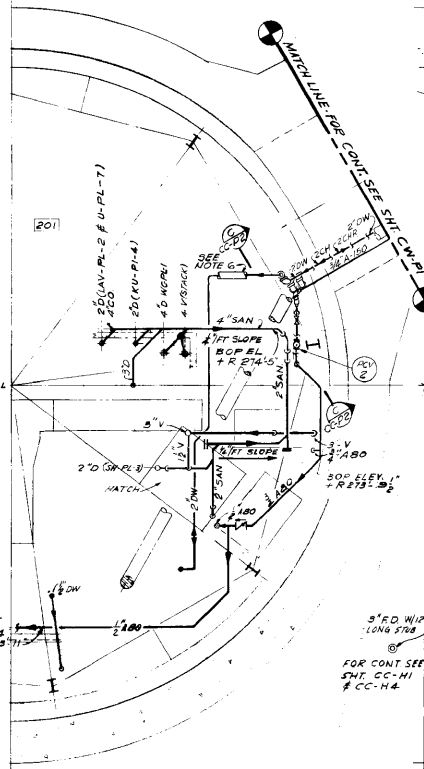
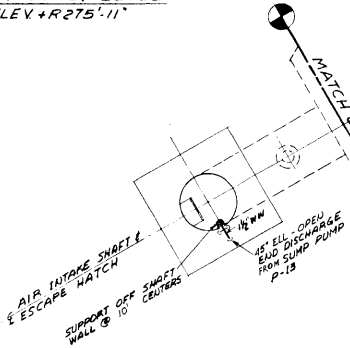
PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS <small>12400 WILSON BLVD., SUITE 1000, WASHINGTON, D.C. 20002</small>		DEPARTMENT OF THE AIR FORCE AIR FORCE BUILDING WAREHOUSE LABORATORY <small>INLEWOOD, CALIFORNIA</small>	
DRAWN BY: M.J. HANLEY CHECKED BY: H.W. BROWN DATE: 11/15-17 PROJECT NO.: 115 SHEET NO.: 146	SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS CONTROL CENTER AIR CONDITIONING FLOW & CONTROL DIAGRAMS		
PROJECT NO.: 115 SHEET NO.: 146 DATE: 11/15-17 PROJECT: SM-68B DRAWING NO.: 115-146 SHEET NO.: 146	PROJECT NO.: 115 SHEET NO.: 146 DATE: 11/15-17 PROJECT: SM-68B DRAWING NO.: 115-146 SHEET NO.: 146	PROJECT NO.: 115 SHEET NO.: 146 DATE: 11/15-17 PROJECT: SM-68B DRAWING NO.: 115-146 SHEET NO.: 146	PROJECT NO.: 115 SHEET NO.: 146 DATE: 11/15-17 PROJECT: SM-68B DRAWING NO.: 115-146 SHEET NO.: 146



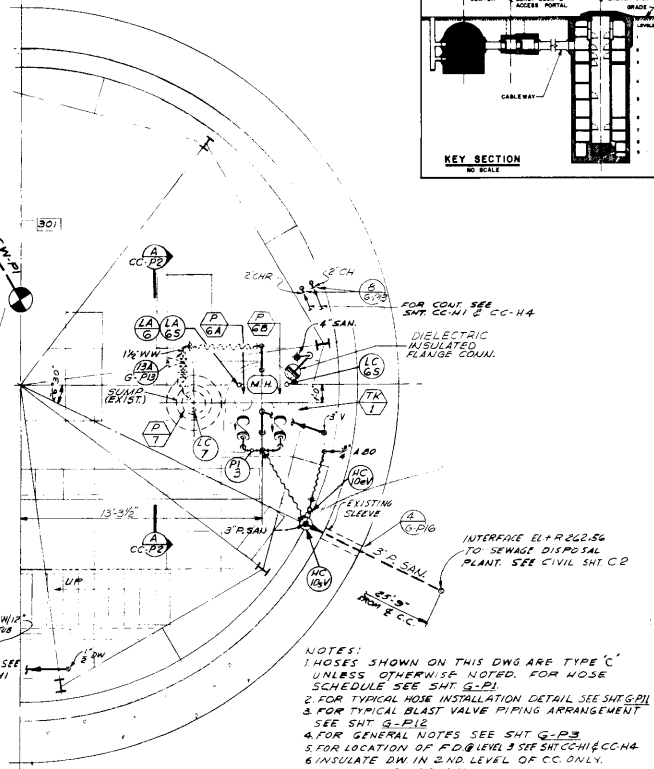
REFERENCE NORTH



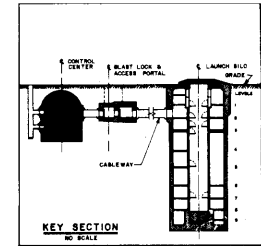
PLAN - FIRST LEVEL
ELEV.+R 275'-11"



PLAN - SECOND LEVEL
ELEV.+R 264'-8"



PLAN - THIRD LEVEL
ELEV.+R 251'-6"



KEY SECTION
NO SCALE

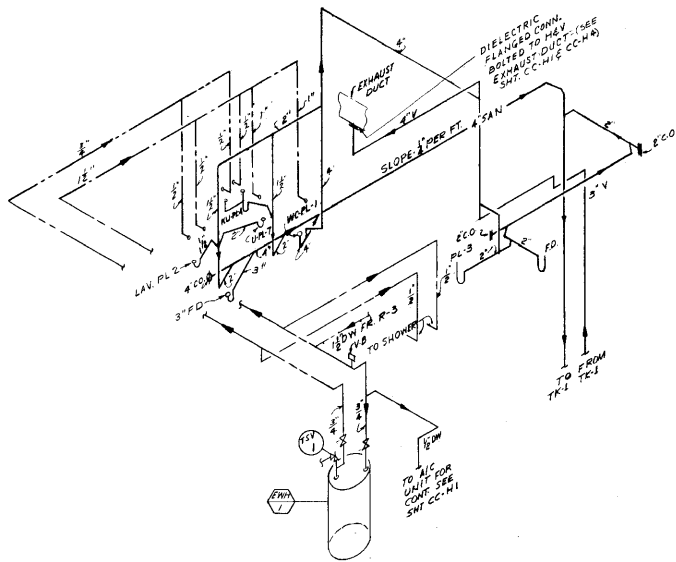
- NOTES:
1. ACCESS SHOWN ON THIS DWG ARE TYPE 'C' UNLESS OTHERWISE NOTED. FOR NOSE SCHEDULE SEE SHT G-P.1
 2. FOR TYPICAL NOSE INSTALLATION DETAIL SEE SHT G-P.1
 3. FOR TYPICAL BLAST VALVE PIPING ARRANGEMENT SEE SHT G-P.12
 4. FOR GENERAL NOTES SEE SHT G-P.3
 5. FOR LOCATION OF P.D. @ LEVEL 3 SEE SHT CC-N1 & CC-N4
 6. ANNOTATE DW IN 2ND LEVEL OF CC ONLY. SEE SPECIFICATIONS.
 7. FOR TYPICAL SUMP PUMP DETAIL SEE SHT G-P.12
 8. CHECK VALVES ON P.G.A & G.B DISCHARGE MUST PASS 1/2" SOLIDS.



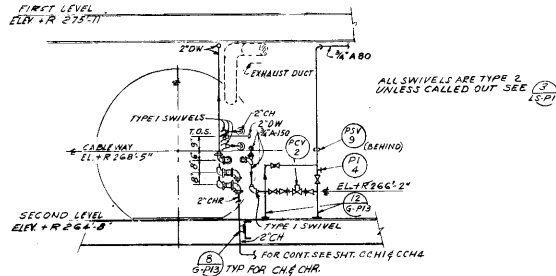
12-14-61 N-46

11 1/2" W/W Schedule 40 Lapweld Tank Level

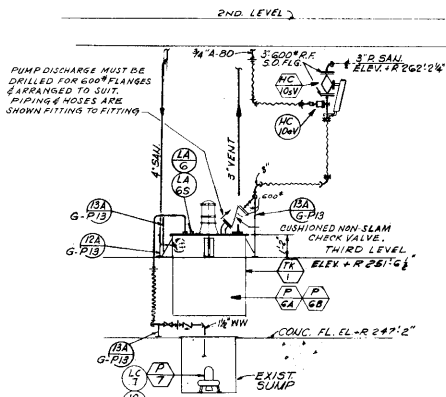
PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION FACDCT INGWOOD, CALIFORNIA	
DESIGNED BY COATES	DRAWN BY DEASLEY	DATE 1715-1F	AGENCY USE
L-CC-P1		SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS	
CHECKED BY DRURY		CONTROL CENTER UTILITY PIPING PLANS LEVELS 1, 2, & 3	
DATE 1-15		SPECIFICATION NO.	
APPROVED BY <i>[Signature]</i>		DATE 123/142 142	



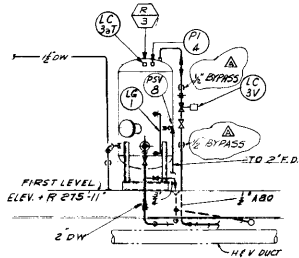
ISOMETRIC (1) REF.
NO SCALE CC-P2 CC-P1



SECTION (C) REF.
CC-P2 CC-P1



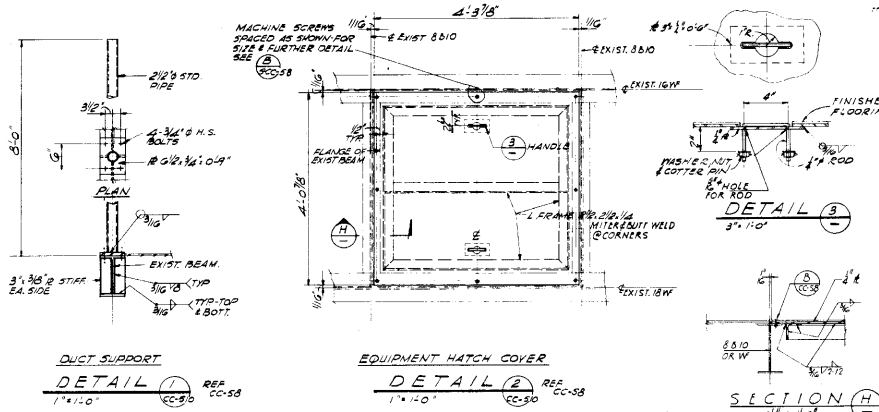
SECTION (A) REF.
CC-P2 CC-P1



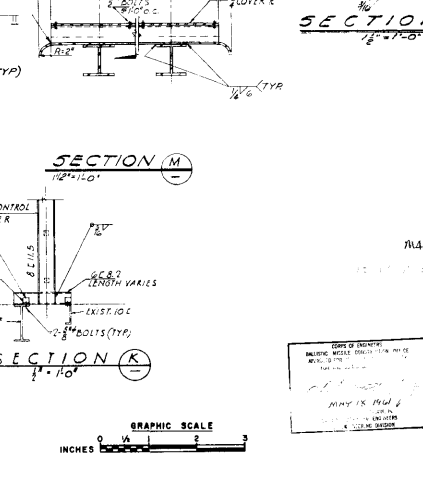
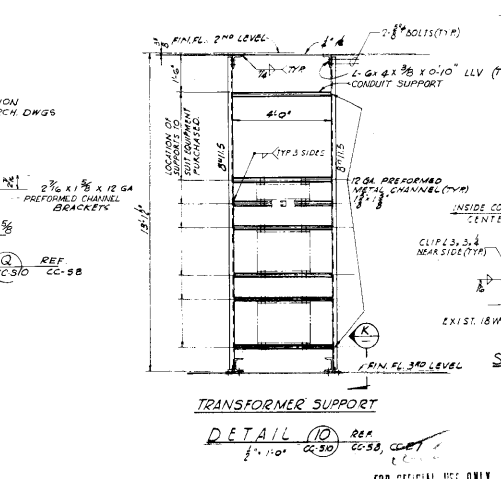
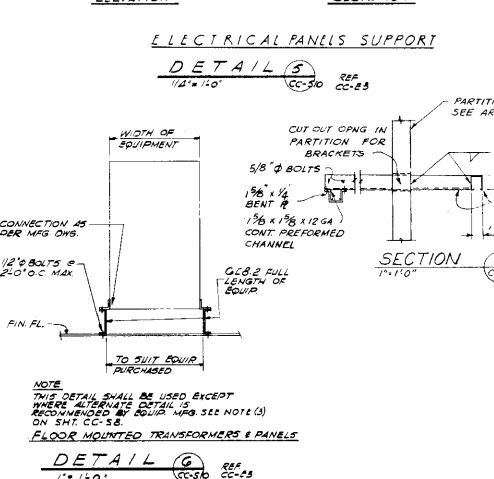
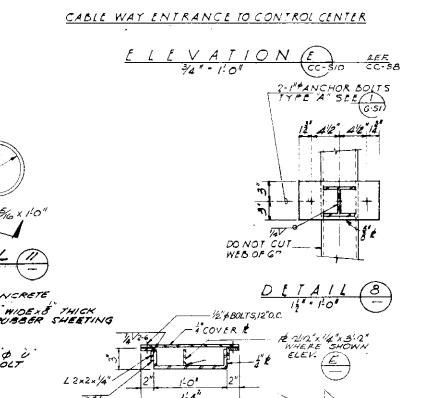
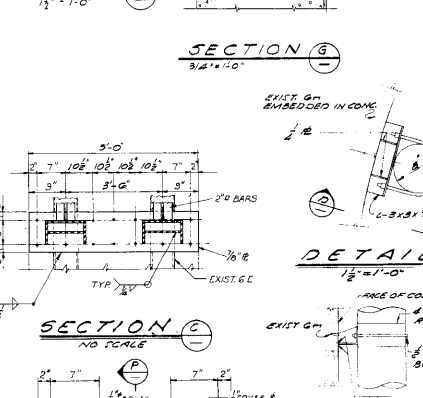
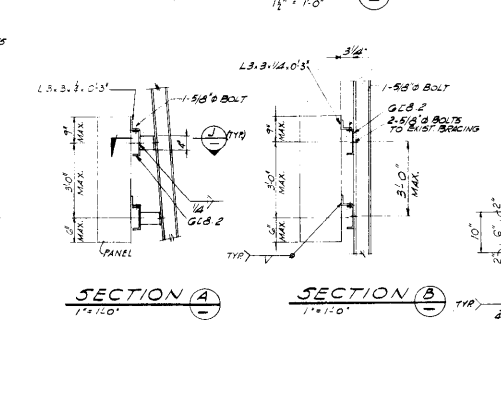
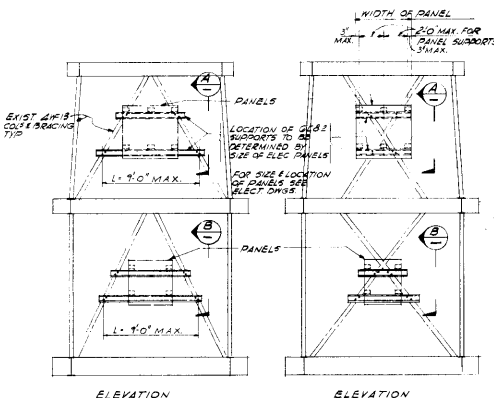
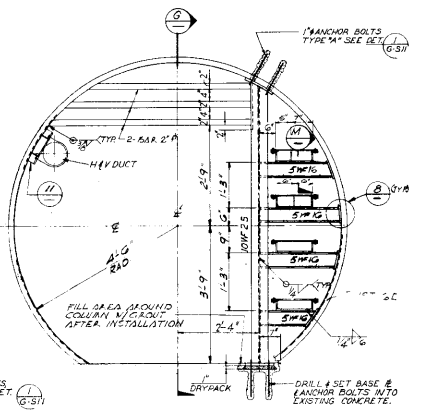
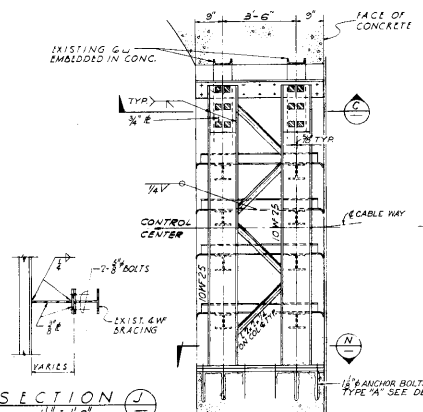
SECTION (B) REF.
CC-P2 CC-P1

FOR OFFICIAL USE ONLY 1/8" SCALE 1" = 8' 0"

REVISION NO. DATE		DESCRIPTION	BY	APP'D
4-28-67		ADDED CALL OUT		END
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 811 WEST BEVERLY DRIVE LOS ANGELES 34, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE SQUADRON, HAWAII DIVISION (HAWC) HONOLULU, HAWAII		
DESIGNED BY: COATES	AS SHOWN NO.	SM-688 TECHNICAL FACILITIES STANDARD PLANS		
DRAWN BY: LELOW	S-CC-P2	CONTROL CENTER UTILITY PIPING SECTIONS & DETAILS		
CHECKED BY: GIBBY	1715-1C	ENGINEER		
DATE: 4/23/67	SCALE: 1/8"	PROJECT NO. 123/143		
DATE: 4/23/67		SCALE: 1/8"	PROJECT NO. 123/143	



FOR OFFICIAL USE ONLY



NO.	DATE	DESCRIPTION	BY	CHECKED
1	11-14-62	Rev. of floor support	See MISC	
2		Rev. Sec M 20	See MISC	

PERSONS-GARVER & GARVER ARCHITECTS-ENGINEERS INDEPENDENCE, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE MILITARY INSTALLATION (ARMC) INDEPENDENCE, CALIFORNIA	
DRAWN BY: <i>W. H. Garver</i> CHECKED BY: <i>W. H. Garver</i> DATE: <i>MAY 18 1962</i>	PROJECT NO.: L-CC-510 SHEET NO.: 1715-1F SCALE: 1/8\"/> 	SM-688 TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS CONTROL CENTER MISCELLANEOUS DETAILS	
TITLE: <i>Transformer Support</i> DRAWN BY: <i>W. H. Garver</i> CHECKED BY: <i>W. H. Garver</i> DATE: <i>MAY 18 1962</i>	PROJECT NO.: L-CC-510 SHEET NO.: 1715-1F SCALE: 1/8\"/> 	DRAWN BY: <i>W. H. Garver</i> CHECKED BY: <i>W. H. Garver</i> DATE: <i>MAY 18 1962</i>	
PROJECT NO.: L-CC-510 SHEET NO.: 1715-1F SCALE: 1/8\"/> 	PROJECT NO.: L-CC-510 SHEET NO.: 1715-1F SCALE: 1/8\"/> 	PROJECT NO.: L-CC-510 SHEET NO.: 1715-1F SCALE: 1/8\"/> 	

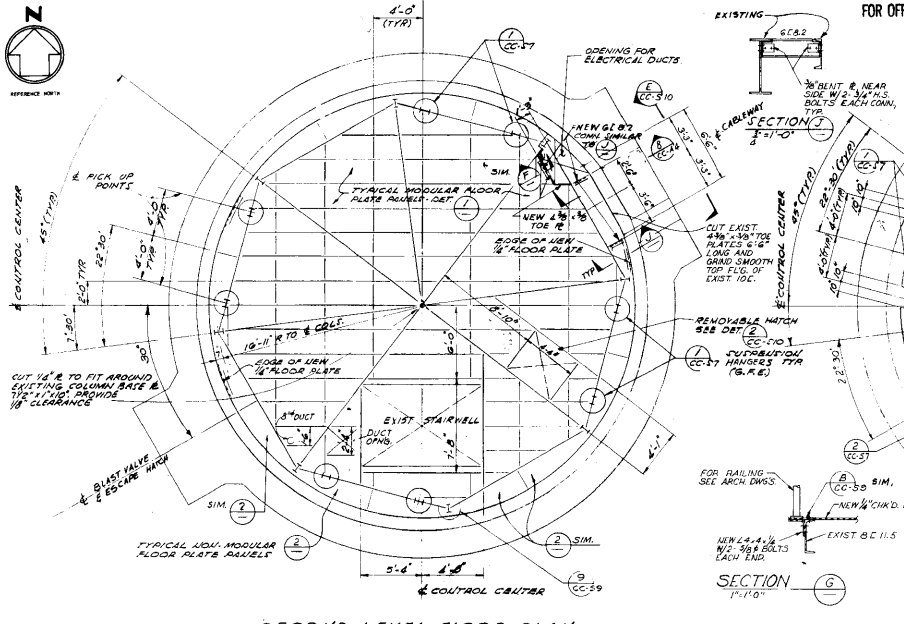
Source Courtesy of Fred Epler, N.A.T.

FOR OFFICIAL USE ONLY

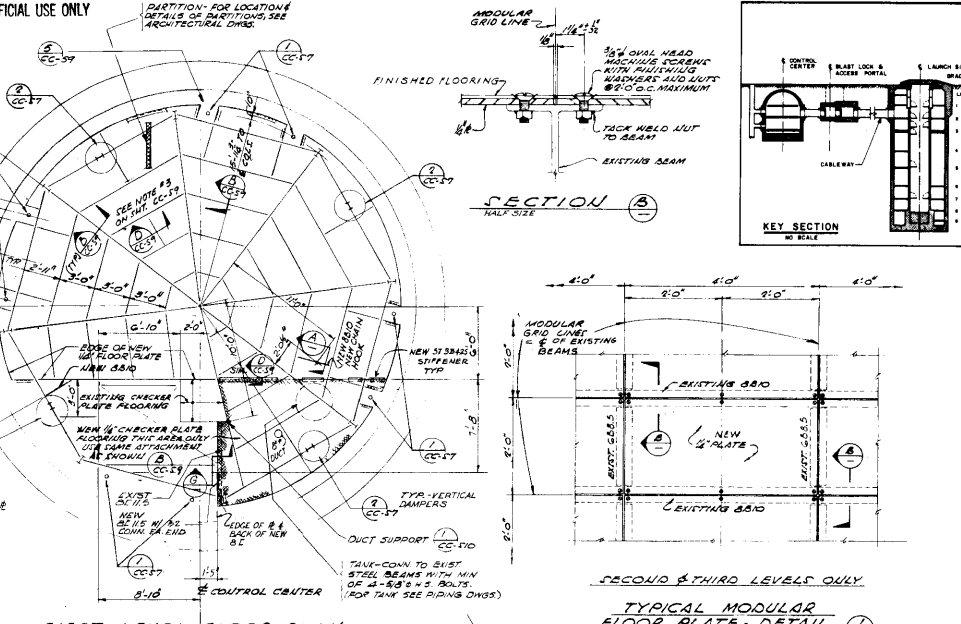


FOR OFFICIAL USE ONLY

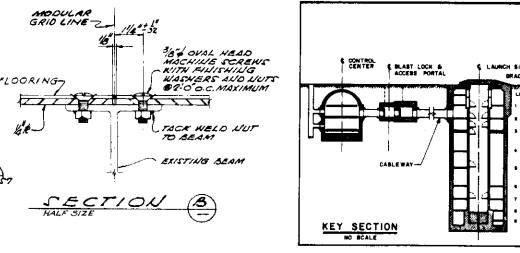
PARTITION FOR LOCATION DETAILS OF PARTITIONS SEE ARCHITECTURAL DWGS.



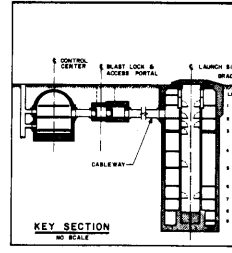
SECOND LEVEL FLOOR PLAN 8'-11.0"



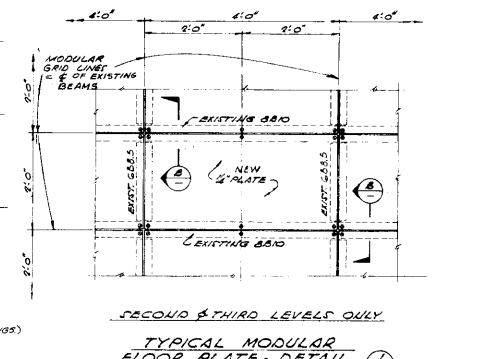
FIRST LEVEL FLOOR PLAN 8'-11.0"



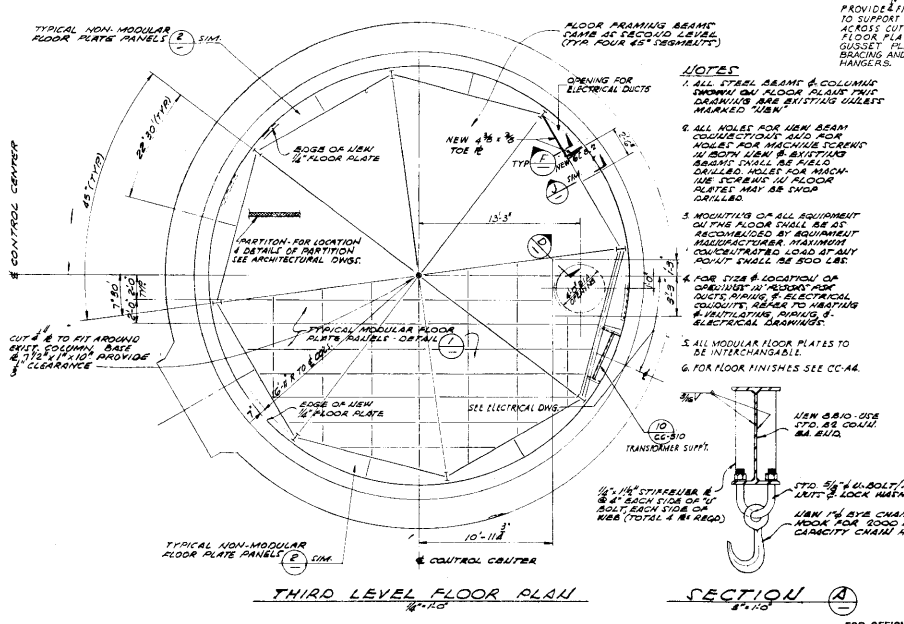
SECTION (3) HALF SIZE



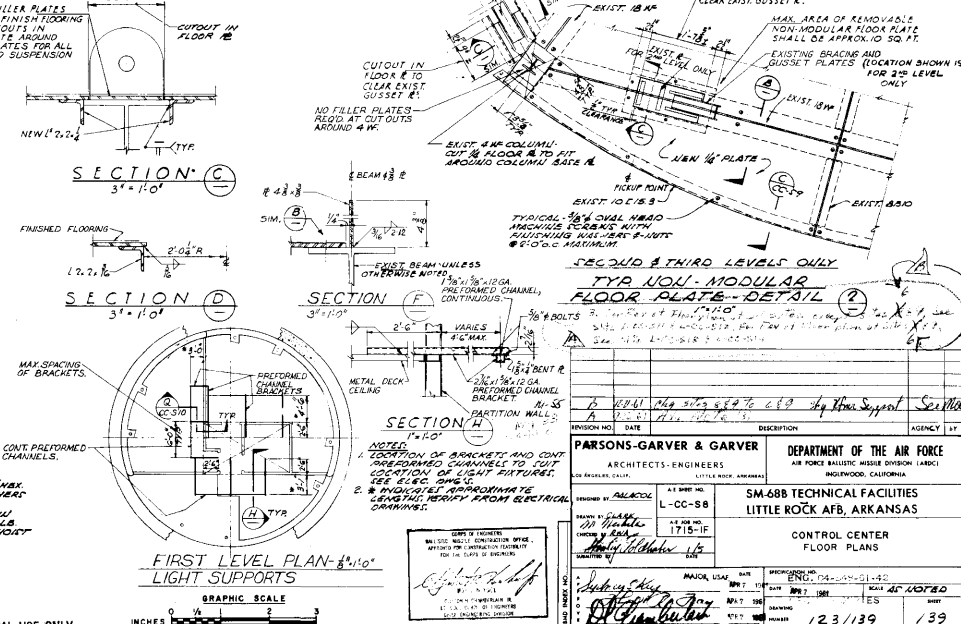
KEY SECTION NO SCALE



SECOND & THIRD LEVELS ONLY TYPICAL MODULAR FLOOR PLATE - DETAIL 1 1'-11.0"

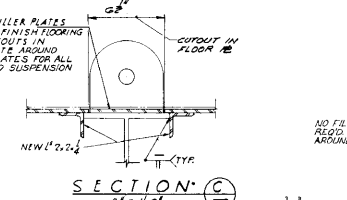


THIRD LEVEL FLOOR PLAN 8'-11.0"

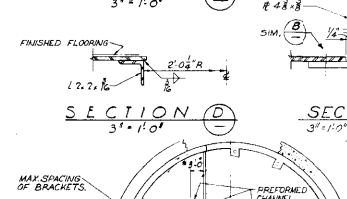


SECOND & THIRD LEVELS ONLY TYPICAL NON-MODULAR FLOOR PLATE - DETAIL 2 1'-11.0"

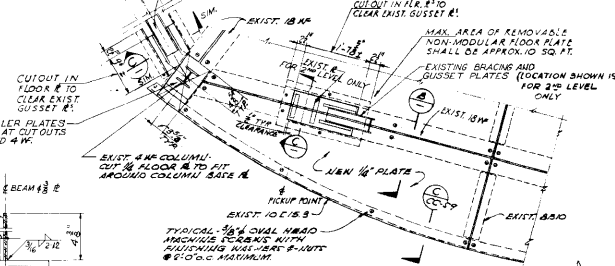
- NOTES**
1. ALL STEEL BEAMS & COLUMNS DOWN TO FLOOR PLATE THAT REMAIN ARE EXISTING GUSSET MARKED 'UBN'.
 2. ALL HOLES FOR URM BEAM CONNECTIONS AND FOR HOLES FOR MACHINE EXHAUST IN BOTH URM & EXISTING BEAMS SHALL BE DRILLED. HOLES FOR MACHINE EXHAUST IN FLOOR PLATES MAY BE SWIVEL DRILLED.
 3. MODITIES OF ALL EQUIPMENT ON THE FLOOR SHALL BE AS RECOMMENDED BY EQUIPMENT MANUFACTURER. EQUIPMENT CONNECTIONS SHALL BE MADE AT ANY POINTS WHICH ARE INDICATED.
 4. FOR SIZE & LOCATION OF OPENINGS IN FLOOR PLATE, DUCTS, PARTITION WALLS, PARTITION CHANNELS, REFER TO ARCHITECTURAL DWGS. FOR PARTITION WALLS & PARTITION CHANNELS.
 5. ALL MODULAR FLOOR PLATES TO BE INTERCHANGEABLE.
 6. FOR FLOOR FINISHES SEE CC-14.



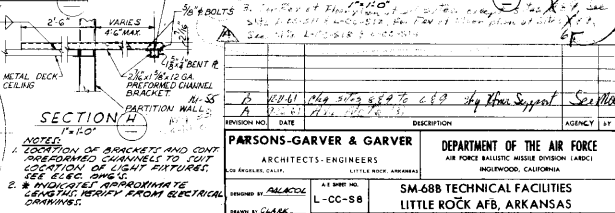
SECTION (C) 3'-11.0"



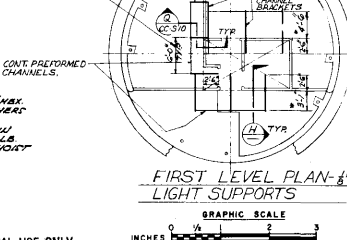
SECTION (D) 3'-11.0"



SECTION (E) 3'-11.0"

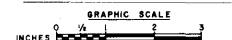


SECTION (F) 3'-11.0"

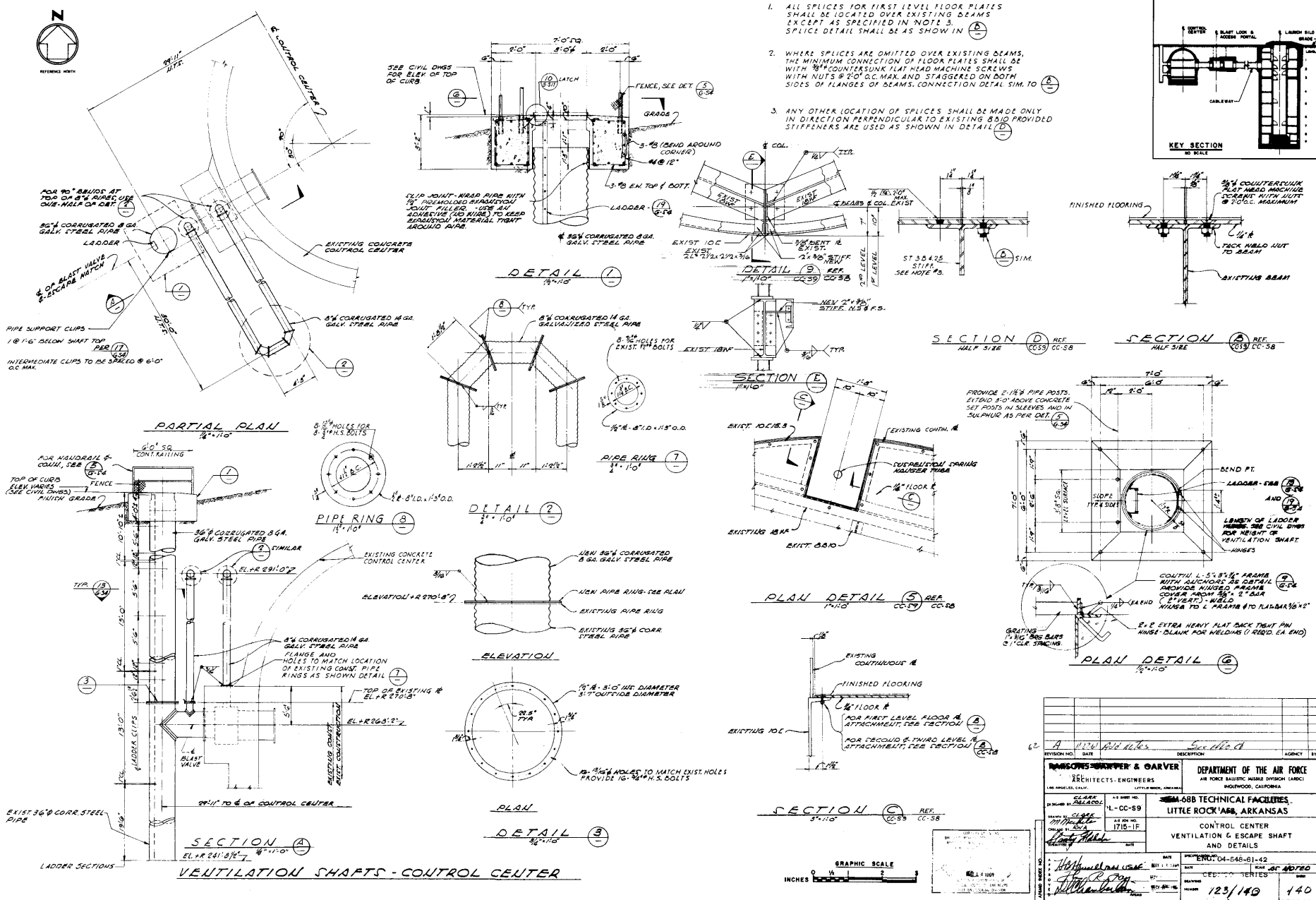


SECTION (A) 3'-11.0"

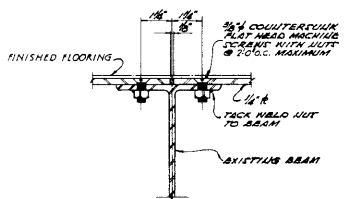
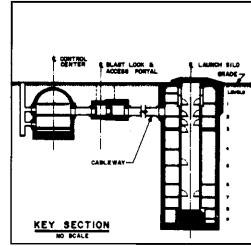
FIRST LEVEL PLAN - 8'-11.0" LIGHT SUPPORTS



PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (ARDC) INGLEWOOD, CALIFORNIA	
PROJECT NO. 123-139	DATE 12/3/68	DESCRIPTION SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS	AGENCY 1T
DESIGNED BY M. ALACOR	AT SCALE L-CC-58	CONTROL CENTER FLOOR PLANS	
DATE 12/3/68	1715-F	DRAWN BY J. GARVER	
CHECKED BY J. GARVER	DATE 12/3/68	SCALE AS NOTED	
APPROVED BY J. GARVER	DATE 12/3/68	123/139 / 39	



- NOTES:**
1. ALL SPLICES FOR FIRST LEVEL FLOOR PLATES SHALL BE LOCATED OVER EXISTING BEAMS EXCEPT AS SPECIFIED IN NOTE 3. SPLICE DETAIL SHALL BE AS SHOWN IN (D).
 2. WHERE SPLICES ARE OMITTED OVER EXISTING BEAMS, THE MINIMUM CONNECTION OF FLOOR PLATES SHALL BE WITH $\frac{3}{4}$ " COUNTERSINK FLAT HEAD MACHINE SCREWS WITH NUTS @ 2'-0" O.C. MAX AND STAGGERED ON BOTH SIDES OF FLANGES OF BEAMS. CONNECTION DETAIL SIM. TO (D).
 3. ANY OTHER LOCATION OF SPLICES SHALL BE MADE ONLY IN DIRECTION PERPENDICULAR TO EXISTING BEAM PROVIDED STIFFENERS ARE USED AS SHOWN IN DETAIL (D).



SECTION (D) REF. CC-38
HALF 3/16"

SECTION (A) REF. CC-38
HALF 3/16"

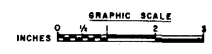
SECTION (B) REF. CC-38
HALF 3/16"

SECTION (C) REF. CC-38
HALF 3/16"

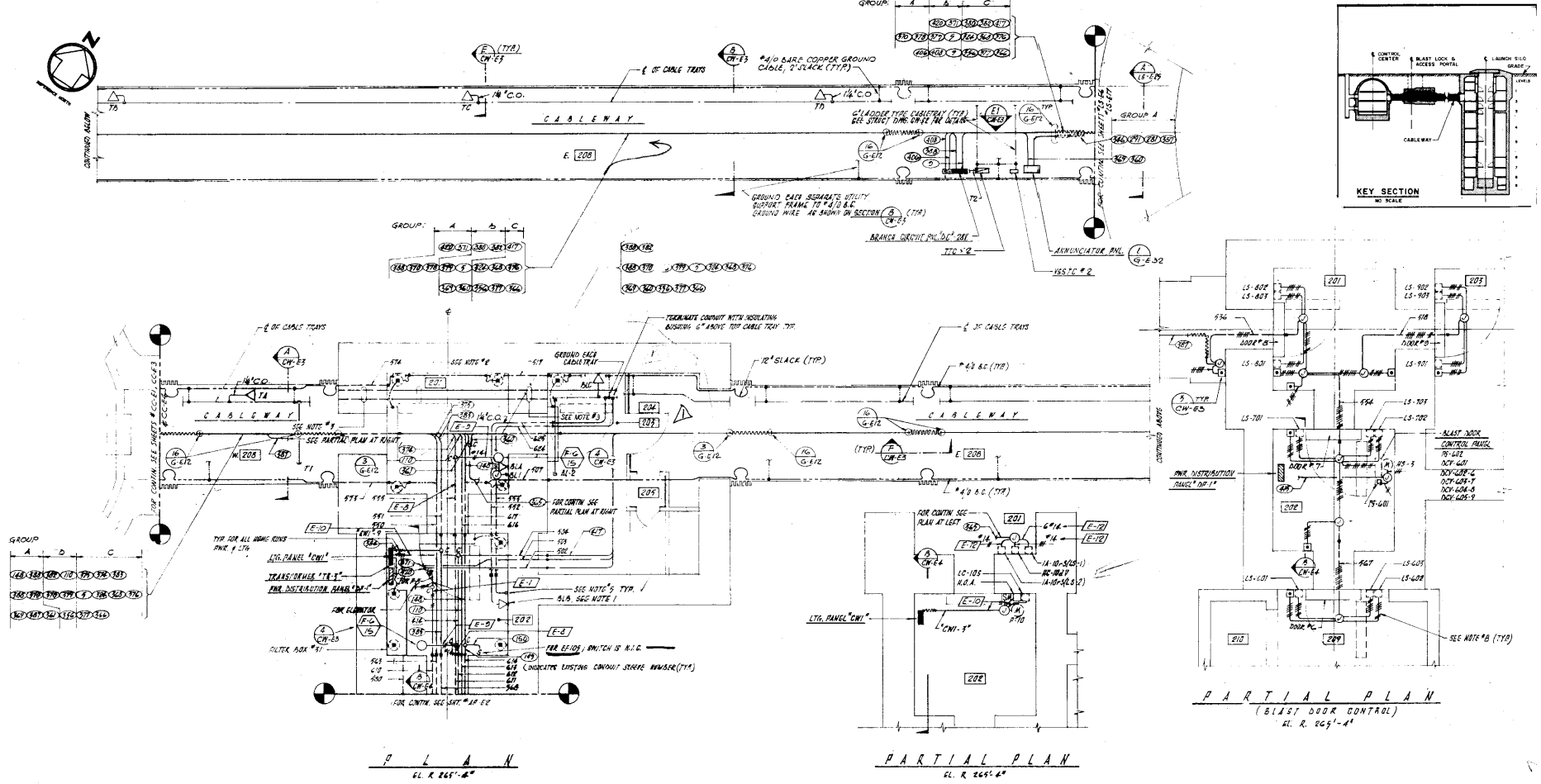
PLAN DETAIL (5) REF. CC-38
1/4\"/>

PLAN DETAIL (6) REF. CC-38
1/4\"/>

SECTION (C) REF. CC-38
3/4\"/>



RANSOME-BURMER & GARVER ARCHITECTS-ENGINEERS 2010 S. GARDNER LITTLE ROCK, ARKANSAS 72202-1175		DEPARTMENT OF THE AIR FORCE AIR FORCE BATTALIC BLDG. (UNCL) (L) HIGHTWOOD, CALIFORNIA 59B TECHNICAL FACILITIES, LITTLE ROCK, ARKANSAS CONTROL CENTER VENTILATION & ESCAPE SHAFT AND DETAILS	
DRAWING NO. 123/140 DATE 12/15/10 DESIGNED BY [Signature] CHECKED BY [Signature] DRAWN BY [Signature]	PROJECT NO. 123/140 SHEET NO. 140 SCALE 1/8" = 1'-0"	REVISION NO. 1 DATE 12/15/10 BY [Signature]	PROJECT NO. 123/140 SHEET NO. 140 SCALE 1/8" = 1'-0"



- NOTES:
1. INSTALL THIS SYSTEM OUTLETS 18" ABOVE CEILING UNLESS OTHERWISE NOTED.
 2. FOR OTHER CONDUITS IN RM 201 SEE SET # CW-64.
 3. EXISTING 5" SLEEVES IN THIS AREA SHALL BE CONNECTED TO 5" CONDUITS AS SHOWN ON SET # CW-64.
 4. FOR EXISTING CONDUIT BUNDLE SCHEDULE & LOCATION SEE INT # DW-05.
 5. ALL STEPS-DOWN FOR TEL SHALL BE AT +4'-0" ABOVE FIN FLOOR UNLESS OTHERWISE NOTED.
 6. MIN. CONDUIT SIZE FOR TEL. & PWS SYSTEM SHALL BE 1/2" UNLESS OTHERWISE NOTED.
 7. CONDUIT ONLY FOR TEL. & PWS SYSTEM. INSTALL SHALL BE IN CONDUIT OF BOTH SYSTEMS.
 8. ALL CENTER WIRES FOR HYDRA-MIC BLAST BOMB SYSTEM IN 8 SHALL BE #14. SEE SCHEMATIC WIRING DIAGRAM SET # E-10. SWITCHES FOR THIS SYSTEM SHALL BE COLOR CODED [E-5].
 9. CONDUITS SHALL BE COLOR CODED AS FOLLOWS:
 - a. FOR HYDRA-MIC CONDUITS SEE SPACES E-14, E-15, E-16, E-17
 - b. [E-5] FOR PWS SYSTEM
 - c. [E-7] FOR TELEPHONE
 - d. OTHER CONDUITS AS NOTED
 10. FOR CONDUIT SUPPORT IN RMS 201, 202, 203, 204 & 205 SEE SET # DW-56
 11. FOR LIMIT SWITCH MOUNTING DETAIL SEE SET # AR-19.

SCHEDULE - SEARCH CIRCUIT PANEL 'C' 201				
NO.	TYPE	DESCRIPTION	QTY	NOTE
1	2	CONDUIT 1/2" L.S.	1000	
2	3	" 3/4" L.S.	1000	
3	4	" 1" L.S.	1000	
4	5	SPACE	500	
5	6	SPACE	500	
			1000	
TOTAL				

NOTE: D.C. IS SUPPLIED FROM A SYSTEM WHICH HAS NEGATIVE POLE GROUNDING. THE NEGATIVE POLE SHALL BE ISOLATED IN THIS PANEL.



18-89

REVISION NO. 1 DATE 11-1-89

ADD'D NOTE #1 DATE 11-1-89

ADD'D #2 DATE 11-1-89

REVISION NO. 2 DATE 11-1-89

ADD'D #1 DATE 11-1-89

ADD'D #2 DATE 11-1-89

DESIGNED BY: *[Signature]*

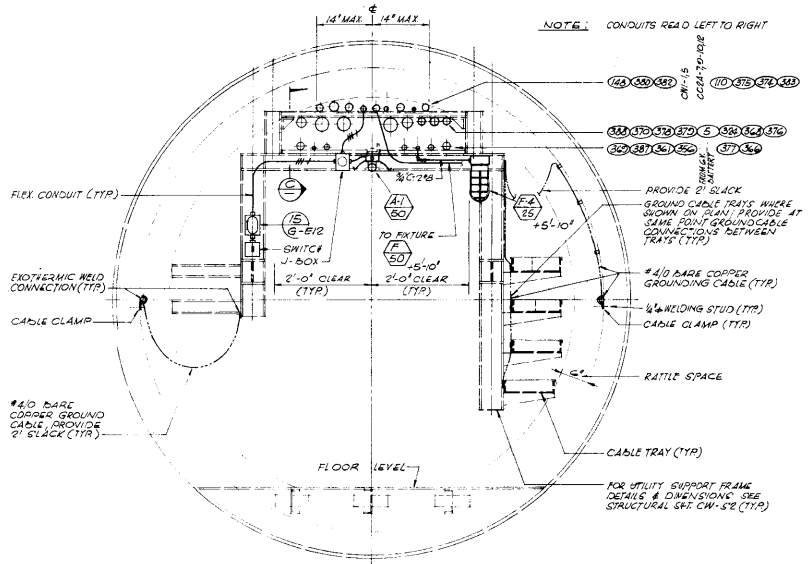
CHECKED BY: *[Signature]*

DATE: 11-1-89

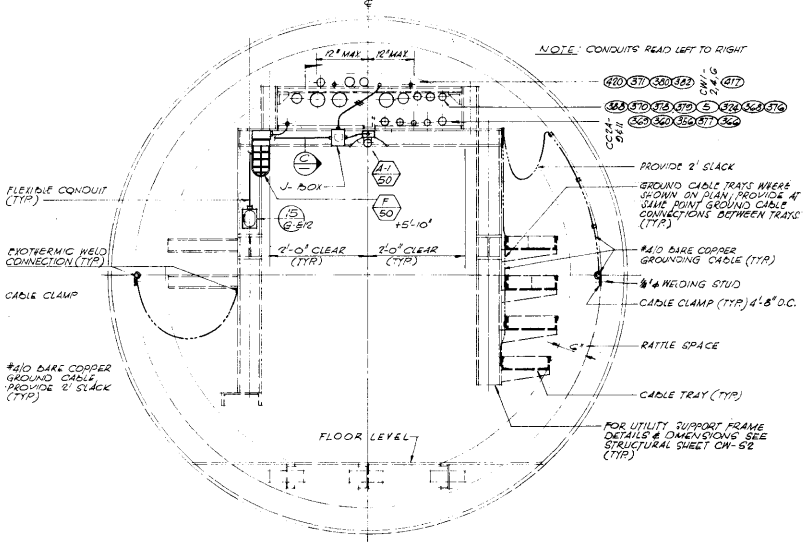
SCALE: 1/8" = 1'-0"

PROJECT: 123/173

SHEET: 173

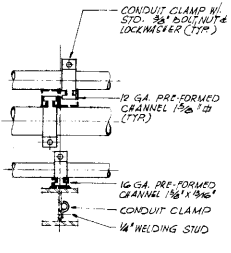


SECTION A REF N.T.S. CW-E1, CW-E2

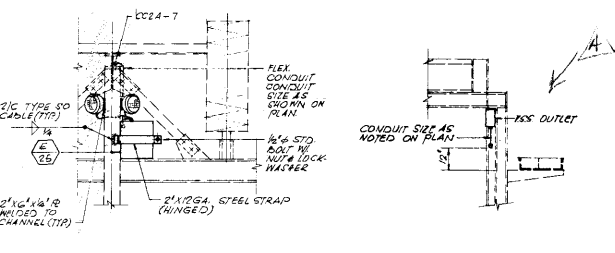


SECTION B REF N.T.S. CW-E3, CW-E1, CW-E2

FOR OFFICIAL USE ONLY

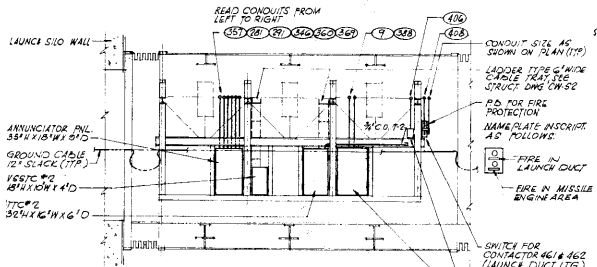


SECTION C REF N.T.S. CW-E3

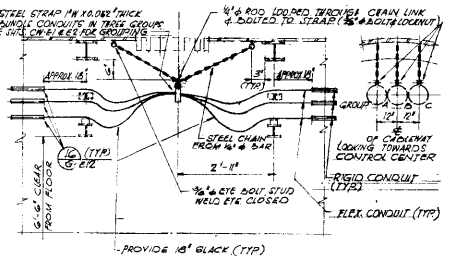


SECTION D REF N.T.S. CW-E3, CW-E1

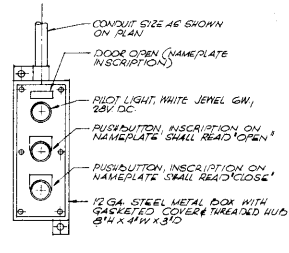
SECTION E REF N.T.S. CW-E3, CW-E2



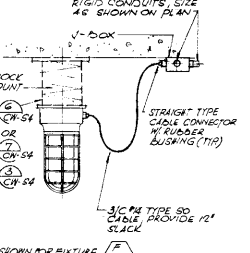
ELEVATION REF N.T.S. CW-E3, CW-E2



SECTION F REF (TYP) CW-E3, CW-E1, CW-E2



DETAIL 3 REF N.T.S. CW-E3, CW-E2

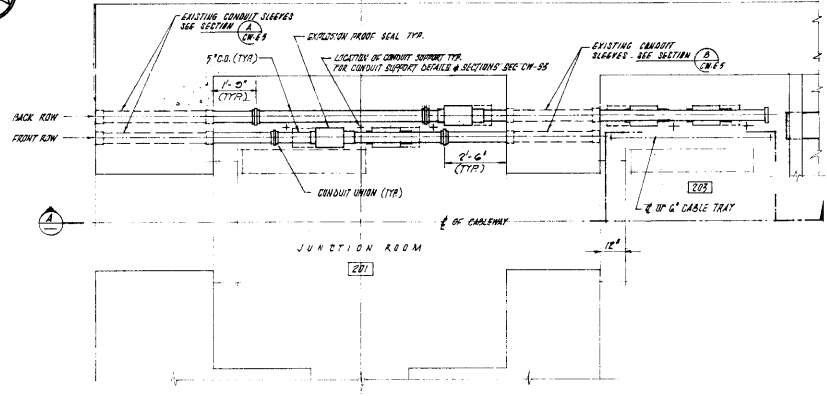
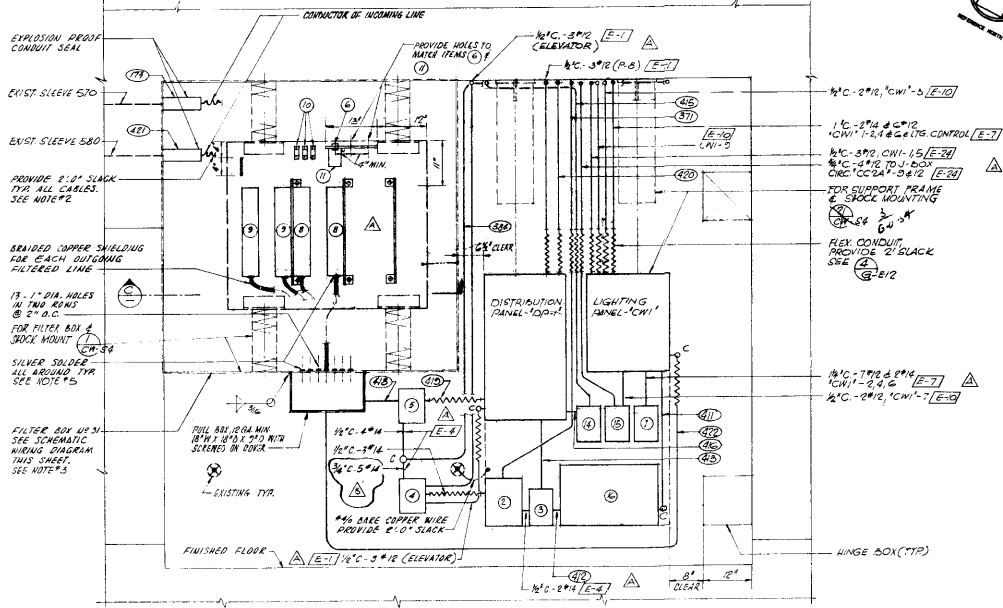


DETAIL 4 REF N.T.S. CW-E3, CW-E1, CW-E2, CW-E4

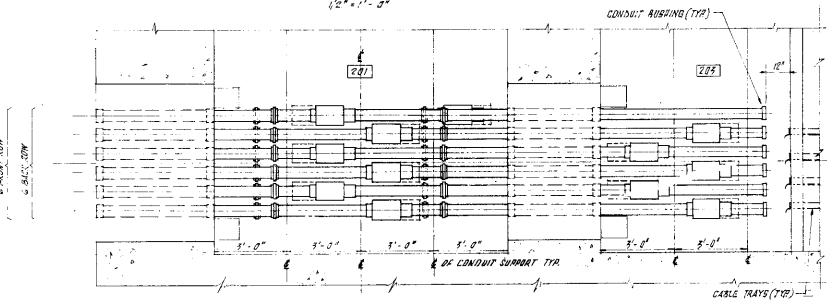


FOR OFFICIAL USE ONLY

1 TITLE SHEET OF 2 2 LITTLE ROCK AFB 3 11/11/50 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		1 TITLE SHEET OF 2 2 LITTLE ROCK AFB 3 11/11/50 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS 1111 LEXINGTON AVENUE, NEW YORK 17, N.Y. PROJECT NO. 1715-1F SHEET NO. 47	DEPARTMENT OF THE AIR FORCE AIR FORCE BULLETIC MISSILE DIVISION (AMDC) HAWTHORNE, CALIF. LITTLE ROCK, ARKANSAS SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS CABLEWAY ELECTRICAL DETAILS	

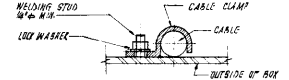


PLAN
1/2" = 1'-0"



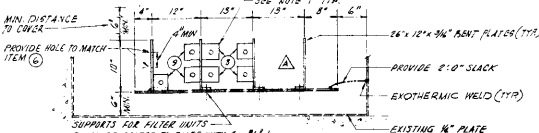
SECTION A
1/2" = 1'-0"

- NOTES:**
1. EACH FILTER UNIT SHALL BE IN A SEPARATE ENCLOSURE.
 2. CLAMP ALL CABLES TO THE EQUIPMENT ENCLOSURE TO PREVENT CONTACT WITH SHOCK MOUNTINGS DURING THE PUL DISPLACEMENT OF SHOCK ISOLATED EQUIPMENT.
 3. FILTER BOX SHALL NOT BE PIERCED IN ANY MANNER EXCEPT AS SHOWN.
 4. INSTALL SUPPORT FRAME SO THAT THE BACK OF THE FRAME SHALL CLEAR THE WALL BY 1/4" & THE FRONT OF THE TRANSFORMER SHALL BE 1/2" OF MIN. FROM N-S & E OF ROOM 202.
 5. SPLIT BETWEEN BRAIDED COPPER SHIELDING OPENING & FILL WITH SILVER SOLDER.
 6. GUMULATED SHALL BE USED TO ASSURE TIGHT FITTING OF CONDUITS IN SUPPORT FRAMES.
 7. FOR COLOR CODE OF NUMBERED CONDUITS SEE SUPETS G-E18 & G-E15.

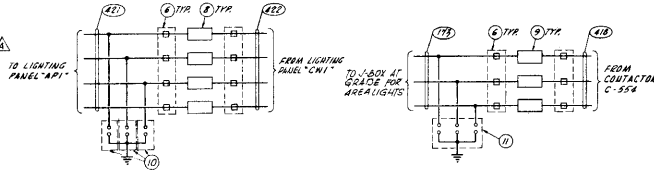


DETAIL I
N.F.S.

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



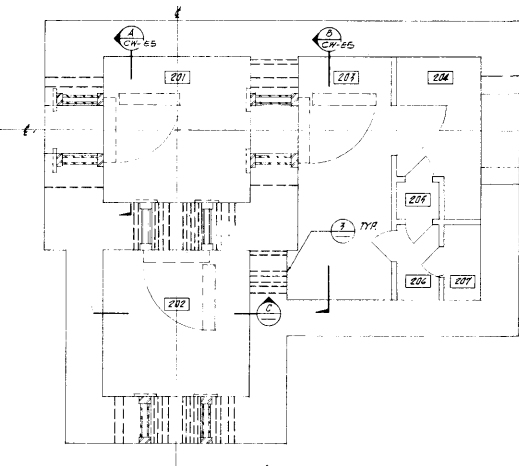
SECTION C
N.F.S.



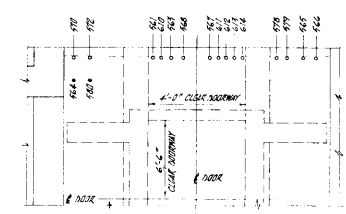
SCHEMATIC WIRING DIAGRAM

EQUIPMENT SCHEDULE			
NO.	DESCRIPTION	MAXIMUM DIMENSION	REMARK
1	CONTACTOR C-556 (SIZE I)		CABLEWAY LIG.
2	RELAY R-1002 W. PILOT LIGHT		PERMISSIVE CONTROL
3	CONTACTOR C-551		TR-3 CIRCUIT
4	CONTACTOR C-552		ELEVATOR CIRCUIT
5	CONTACTOR C-554		AREA 115-CIRCUIT
6	STRAIGHT TYPE CABLE CONNECTOR WITH RUBBER HOUSING	1 3/4" DIA. x 2 1/2" L.	
7			
8	E.M. FILTER	A.C. 30A, 1#	FOR USE IN 120V. TRAY SYSTEM
9	E.M. FILTER	A.C. 30A, 1#	FOR USE IN 277V. TRAY SYSTEM
10	LIGHTNING ARRESTER	175V A.C., 1#	3 1/2" x 3 1/2" x 1 1/2" D.
11	LIGHTNING ARRESTER	480 V.A.C., 3#	5 1/2" x 5 1/2" x 3 1/2" D.
12			
13			
14	MOTOR STARTER	M 559	N.S. 3
15	CONTACTOR	C560 (SIZE I)	CHGR. LTH. CONTACTOR
16	TRANSFORMER	TR-3	16 1/2" x 24" x 8" D.

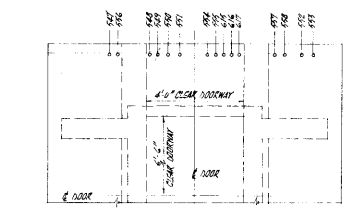
PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS 11704 RING ROAD, ARKANSAS		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (ABMD) BIRMINGHAM, CALIFORNIA	
APPROVED FOR: [Signature] DATE: [Date]	DESCRIPTION: [Text] AGENCY: [Text]	SM-588 TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS CABLEWAY JUNCTION ROOM PLAN B & SECTIONS	
PROJECT NO. 1715-1F DATE: 1/15/58		DRAWING NO. 123/175 SHEET NO. 175	



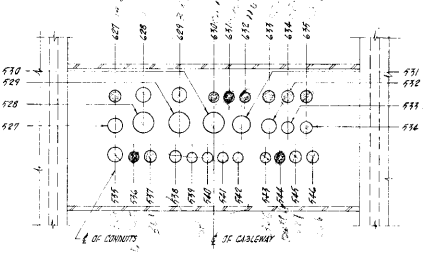
PLAN-BLAST LOCK
1/4" = 1'-0"



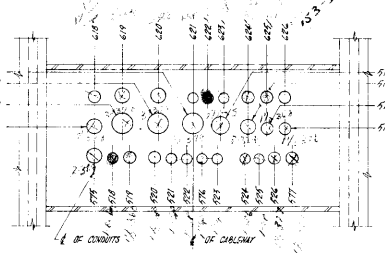
SECTION D
1/4" = 1'-0"



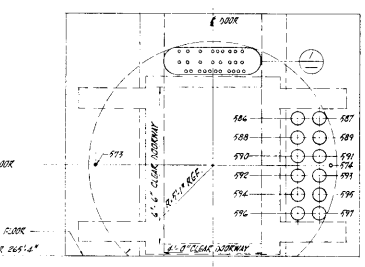
SECTION C
1/4" = 1'-0"



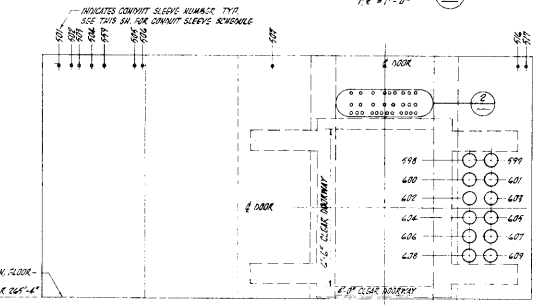
DETAIL 1
1/4" = 1'-0"



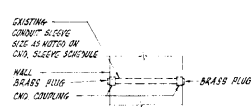
DETAIL 2
1/4" = 1'-0"



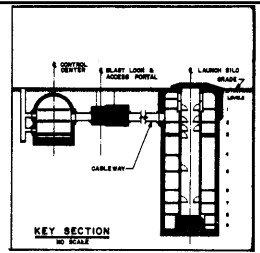
SECTION A
1/4" = 1'-0"



SECTION B
1/4" = 1'-0"



DETAIL 3
1/4" = 1'-0"

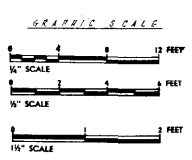


KEY SECTION
1/4" = 1'-0"

EXISTING CONDUIT SLEEVE SCHEDULE

NO	SIZE	REMARKS	NO	SIZE	REMARKS	NO	SIZE	REMARKS	NO	SIZE	REMARKS
501	2"	SLAVE	541	1"	SLAVE	581	1"	SLAVE	621	1"	SLAVE
502	2"	CONNECT TO CHD #400	542	1"	SLAVE	582	1"	CONNECT TO CHD #775	622	1"	CONNECT TO CHD #110
503	1"	CONNECT TO CHD #399	543	1"	CONNECT TO CHD #356	583	1/2"	CONNECT TO CHD #775	623	1"	SLAVE
504	1"	CONNECT TO CHD #417	544	1"	CONNECT TO BATTERY LT	584	1/2"	CONNECT TO CHD #775	624	1/2"	CONNECT TO TEL. 5/4\"/>

- NOTES:
- FOR LOCATION OF EXISTING SLEEVE NO. 571, 581 THROUGH 585 SEE SECTION D
 - WHERE CONDUITS CONNECTED TO EXISTING CONDUIT SLEEVES ARE NOT OF THE SAME SIZE, REDUCERS SHALL BE USED
 - EXCESS BRASS PLUGS SHALL BE CONSIDERED AS SCRAP



MADE BY: [Signature]
DATE: 12/15/58
SCALE: AS SHOWN

11-99

1. *WPAE Document 11/15/58*

408/41 10000 NOTE

REVISION NO. DATE DESCRIPTION AGENCY BY

THE RALPH M. PARSONS COMPANY
ARCHITECT - ENGINEER
811 WEST BERRY STREET, LOS ANGELES 17, CALIFORNIA

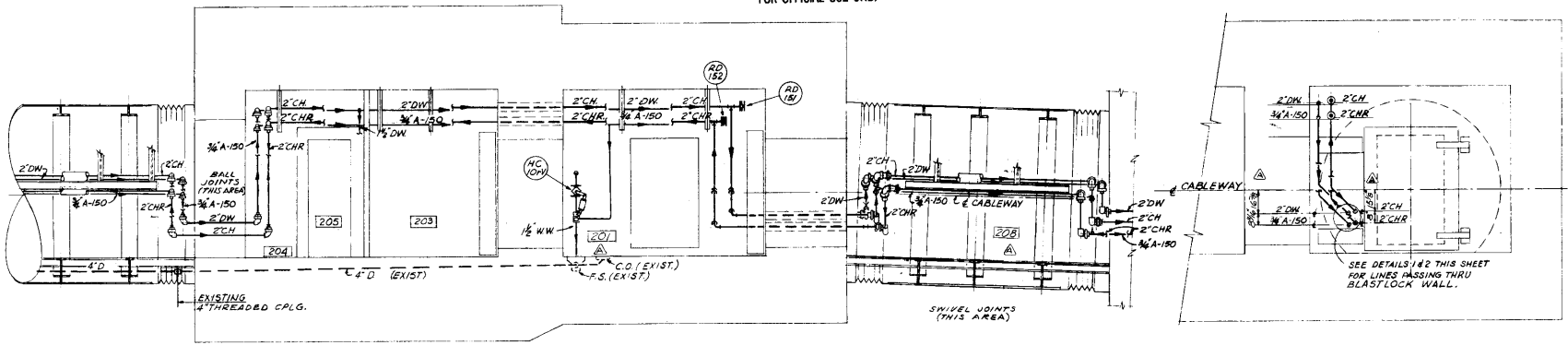
DEPARTMENT OF THE AIR FORCE
AIR FORCE BALLISTIC MISSILE DIVISION (ARDC)
HOLDSWORTH, CALIFORNIA

SM-68B TECHNICAL FACILITIES
STANDARD PLANS

CABLEWAY
EXISTING SLEEVES

PROJECT NO. 1715-1C
DATE: 12/15/58
SCALE: AS SHOWN

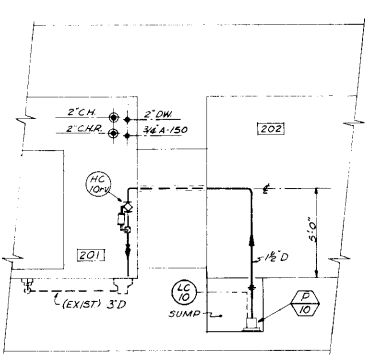
176



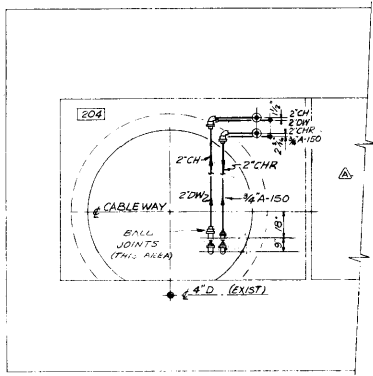
SECTION A REF. CW-P2 CW-P1

NOTE:
1 FOR BALL JOINTS SEE (1) CW-P1
2 FOR SWIVEL JOINTS SEE (2) LS-P1

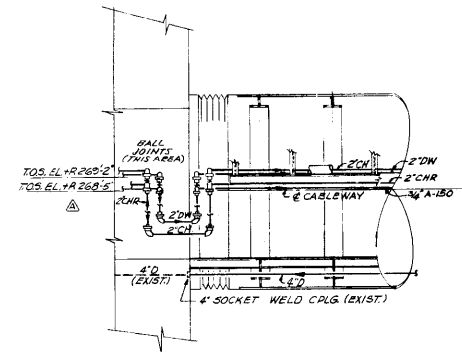
SECTION B REF. CW-P2 CW-P1



SECTION C REF. CW-P2 CW-P1

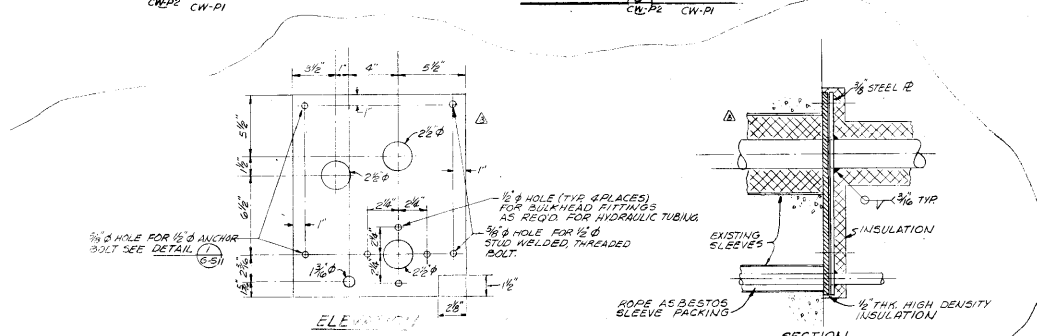


SECTION D REF. CW-P2 CW-P1



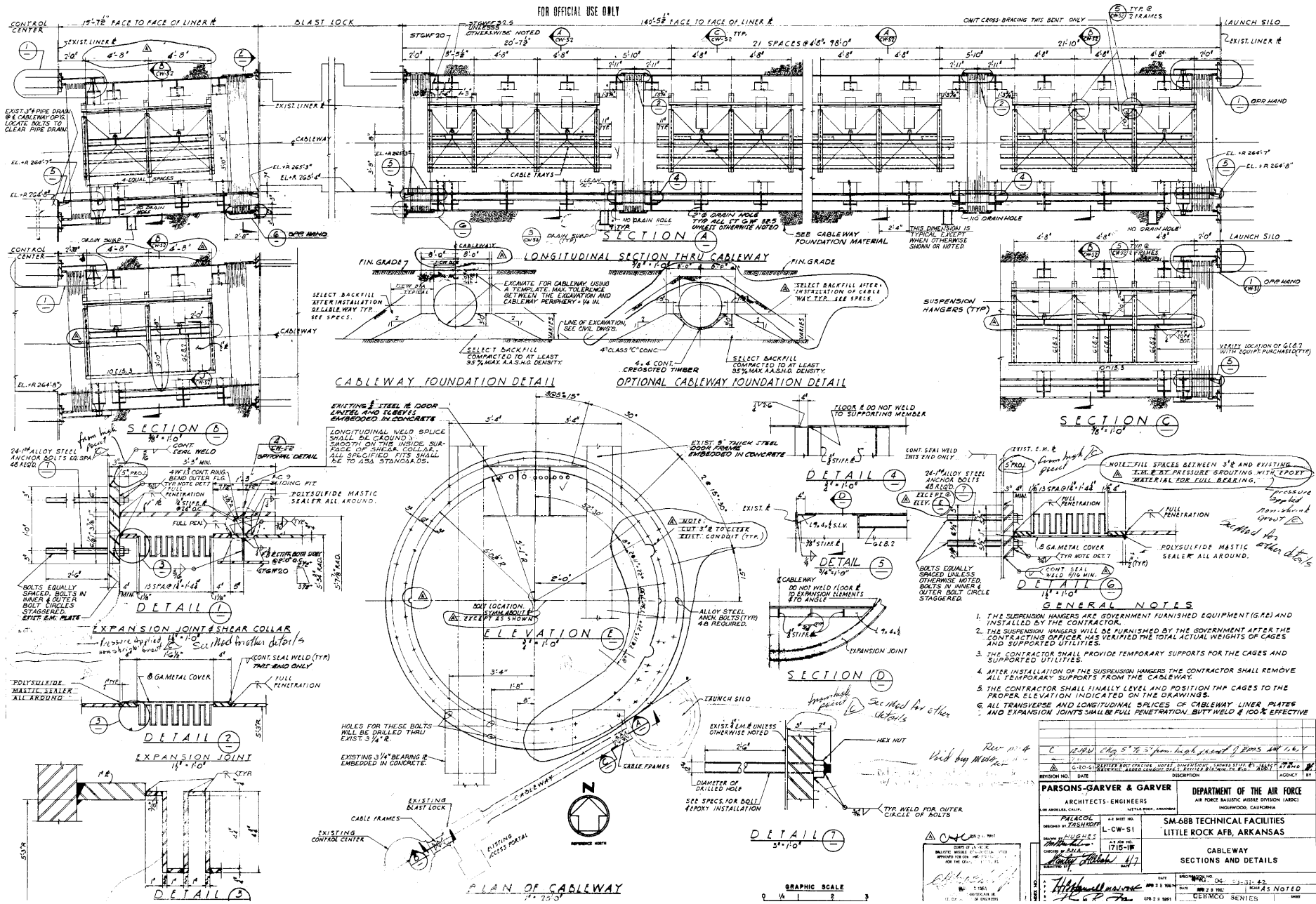
SECTION E REF. CW-P2 CW-P1 LS-P2

FOR NOTES SEE SHEET CW-P1

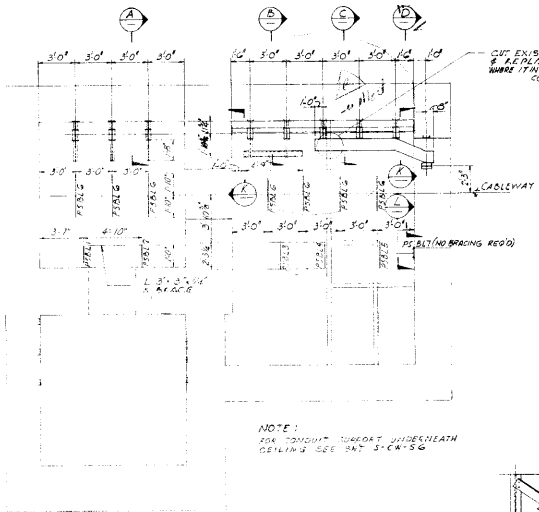


DETAIL 1 2 REF. CW-P2 CW-P2

(A) (B) (C) REV. DET. 1 & 2, CHANGED SHI. NO. 5 TO L. REG. I (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)		25/200 25/200 25/200
REVISION NO. DATE DESCRIPTION AGENCY BY	PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS 1000 UNIVERSITY BLVD., SUITE 1000, SAN FRANCISCO, CALIF.	
DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (ARDC) INGLEWOOD, CALIFORNIA		SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS
BLAST LOCK UTILITY PIPING SECTIONS & DETAILS		
PROJECT NO. 1715-10 SHEET NO. 123/171		ERG. 04-549-31-42 SCALE 3/8" = 1'-0" DATE 2-13-50 DRAWN BY [Signature] CHECKED BY [Signature]

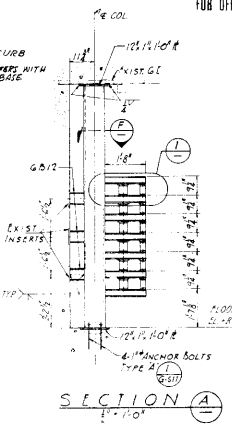


FOR OFFICIAL USE ONLY

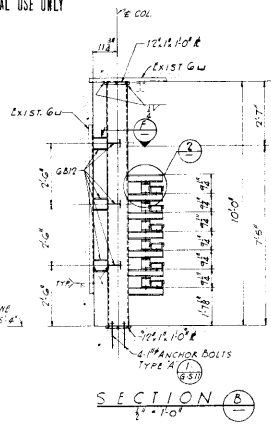


NOTE:
FOR TYPICAL SUPPORT GUIDELINES
DETAILS SEE DET. 3-C&S-G

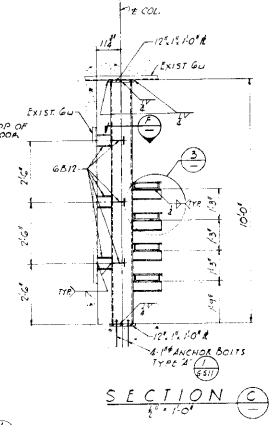
BLAST LOCK
UTILITY SUPPORT PLAN



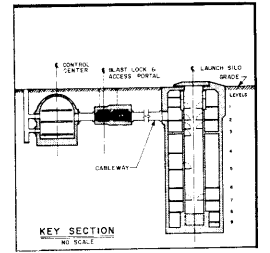
SECTION A



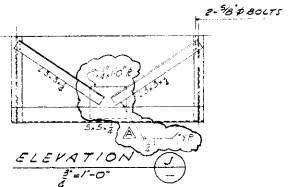
SECTION B



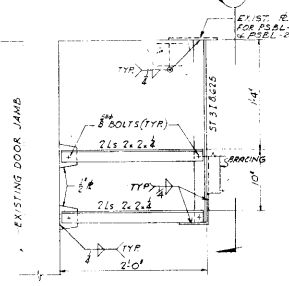
SECTION C



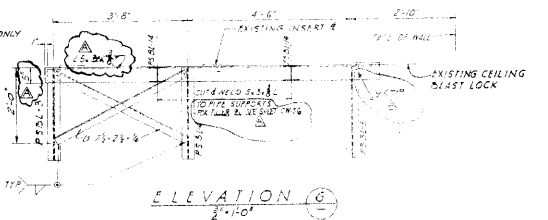
KEY SECTION



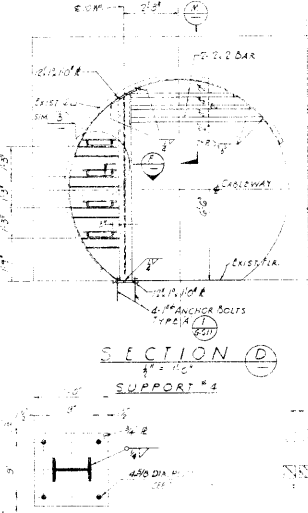
ELEVATION J



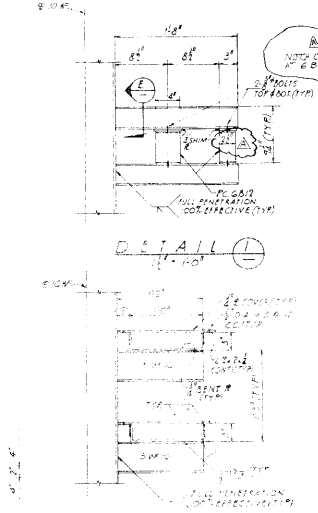
PIPE SUPPORTS IN BLAST LOCK



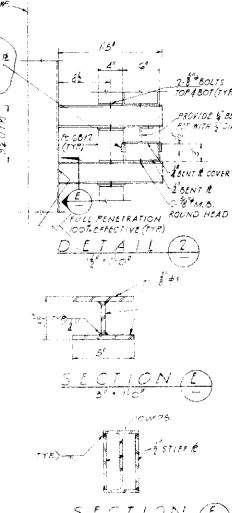
ELEVATION G



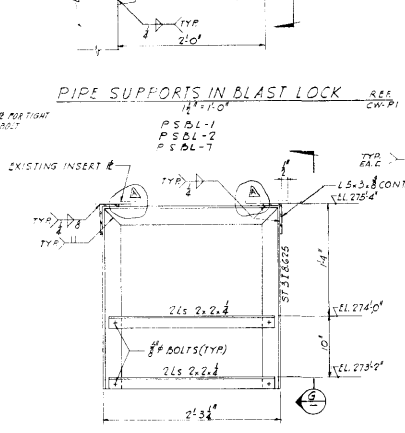
SECTION D



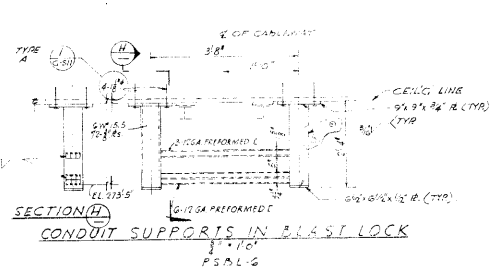
DETAIL L



SECTION E



PIPE SUPPORTS IN BLAST LOCK

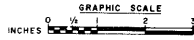


SECTION H

SECTION AS SHOWN

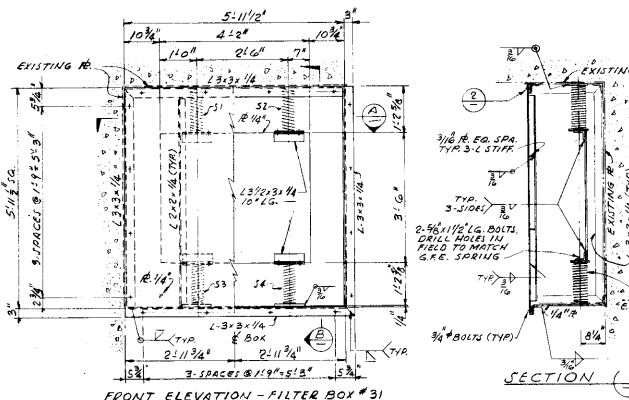
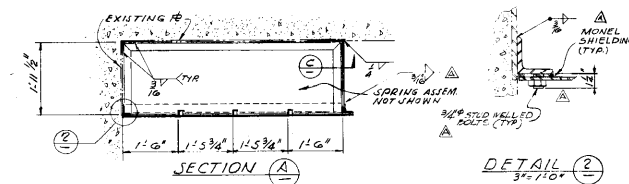
SECTION M

Source Courtesy of Fred Epler, N.A.T.

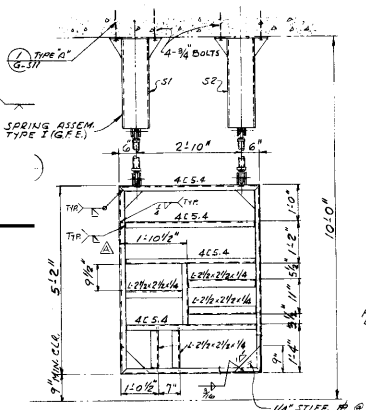
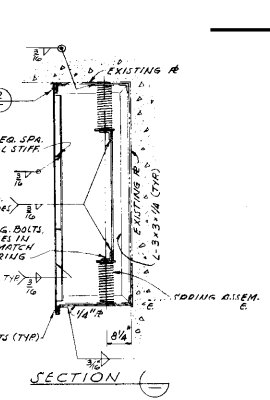
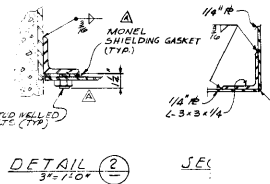


DATE: 11/14/04
BY: [Signature]
CHECKED BY: [Signature]

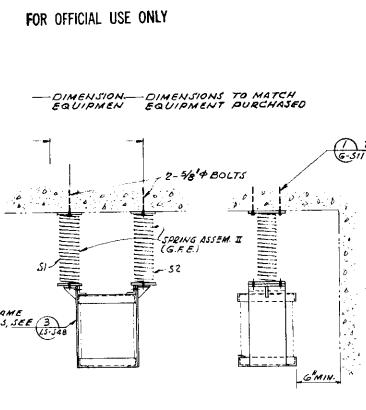
PROJECT NO. 6-00-01	DATE 11/14/04	AGENCY 1AF
PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS 1100 WEST 10TH AVENUE INGLEWOOD, CALIFORNIA 90741-3000		DEPARTMENT OF THE AIR FORCE AIR FORCE BALDWIN MISSILE SYSTEM LABORATORY INGLEWOOD, CALIFORNIA
DESIGNED BY: SLS/STP/STP	BY: [Signature]	SM 488 TECHNICAL FACILITIES
DRAWN BY: SLS/STP/STP	DATE: 11/14/04	INDIAN ROCK AVENUE, ARKANSAS
CHECKED BY: SLS/STP/STP	DATE: 11/14/04	CABLEWAY
SCALE: AS SHOWN	PROJECT NO. 6-00-01	ELECTRICAL & PIPING SUPPORTS
SHEET NO. 1115-1P TOTAL SHEETS: 1115-1P, 1115-1Q, 1115-1R, 1115-1S, 1115-1T, 1115-1U, 1115-1V, 1115-1W, 1115-1X, 1115-1Y, 1115-1Z		



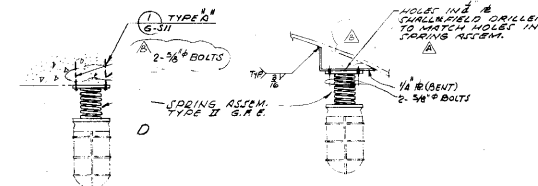
DETAIL 1 REF
3/4" x 1/2" CW-54 CW-28



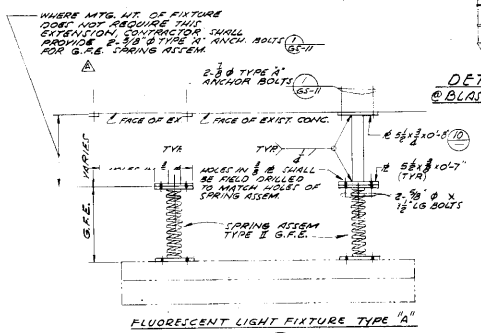
DETAIL 3 REF
CW-52 CW-E-2



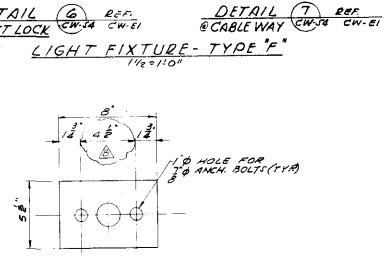
DETAIL 5 REF
1/2" x 1/2" CW-54 CW-E1



DETAIL 8 REF
CW-54 CW-E1



DETAIL 9 REF
1/2" x 1/2" CW-54 CW-E1, 2, 3, 4



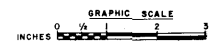
DETAIL 10 REF
3/4" x 1/2" CW-54

SPRING TABLE (G.F.E.)
(FOR INSTALLATION INFORMATION ONLY)

EQUIPMENT	SPRING	LOAD	DESIGN LOAD	DYNAMIC DEFLECTION	SPRING CONSTANT	MEAN COIL DIA	WIRE DIA	COILS	FREE HEIGHT	WORK HEIGHT
						O"	O"	N	F H"	
FILTER BOX #31	J1	125				5	7/16	9.0	13 1/4	
	J2	125				5	7/16	9.0	13 1/4	
	J3	125				5	7/16	9.0	13 1/4	
	J4	125				5	7/16	9.0	13 1/4	
DISTR. CTR. CONTROL PANEL	J1	301				7	11/16	8.5	15	12 3/4
	J2	288				7	11/16	8.5	15 1/4	13
QCCP	J1	31				3	1/4	15.2	19	15 1/4
	J2	31				3	1/4	15.2	19	15 1/4
LIGHT FIXTURE	J1	6.87				3	1/4	7.5	5	5.20
	J2									

Source Courtesy of Fred Epler, N.A.T.

FOR OFFICIAL USE ONLY



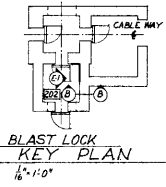
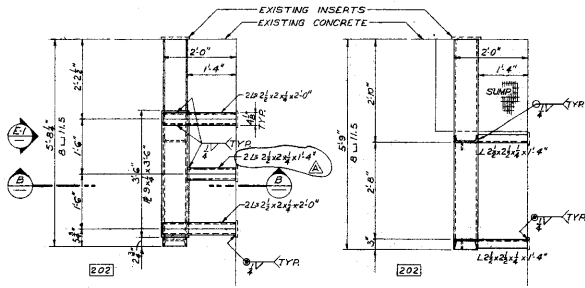
PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS
LITTLE ROCK, ARKANSAS

DEPARTMENT OF THE AIR FORCE
AIR FORCE BARRACADES DIVISION (AMC)
INGLWOOD, CALIFORNIA

SM-68B TECHNICAL FACILITIES
LITTLE ROCK AFB, ARKANSAS

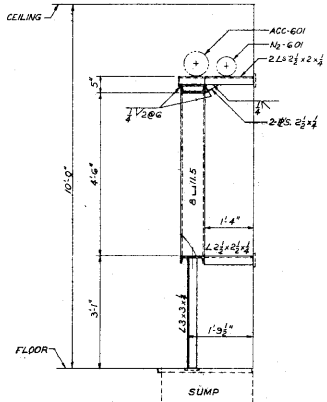
CABLEWAY
EQUIPMENT SHOCK ISOLATORS
MISC. BOXES & LIGHT FIXTURES

DATE: 12/15/54
DRAWN BY: [Signature]
CHECKED BY: [Signature]

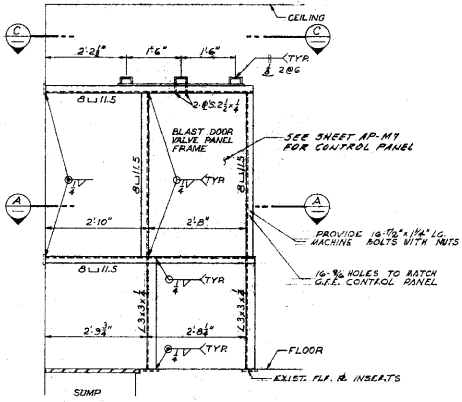


PLAN SECT. C
3'-1-0"

PLAN SECT. A
3'-1-0"

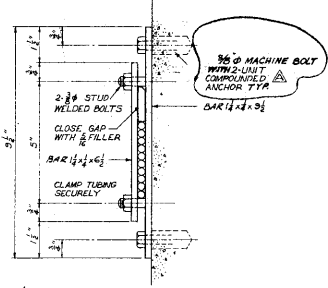


SECTION B
3'-1-0"

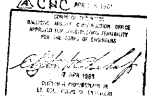


FRONT ELEVATION E-1
3'-1-0"

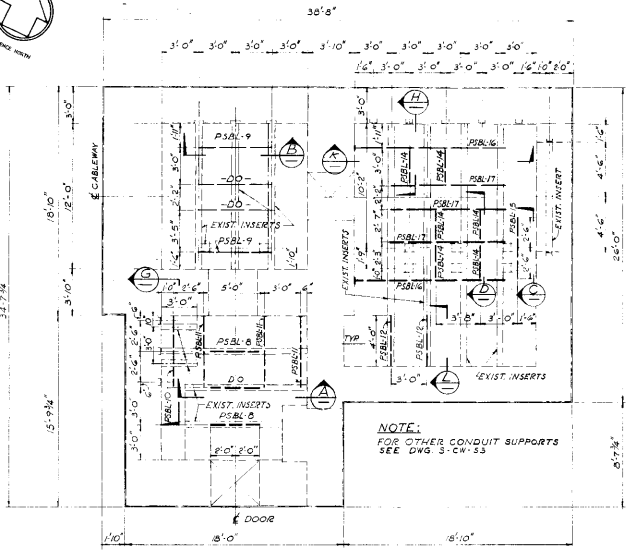
SUPPORT FOR BLAST DOOR VALVE PANEL
AND VESSELS ACC-601 & N2-601



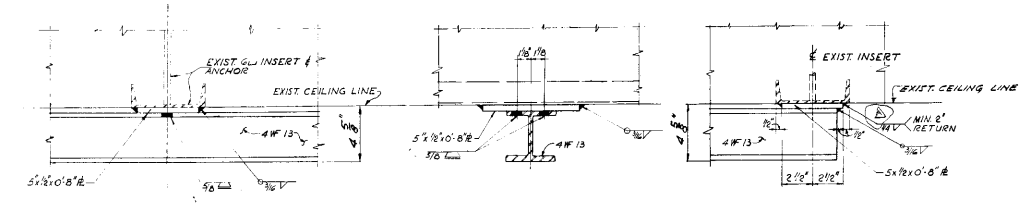
P.S. FOR 3/8" HYDRAULIC TUBING
HALF FULL SIZE
FOR P.S. SPACINGS SEE DWG. AP-M7



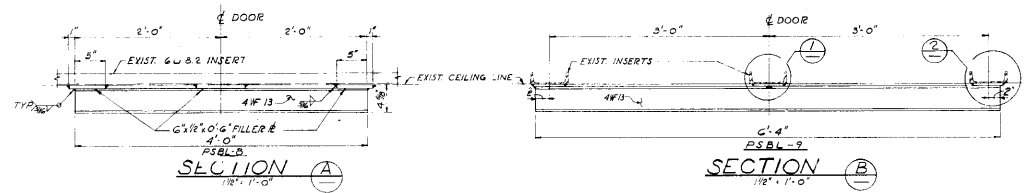
REVISION NO.	DATE	REVISIONS	DESCRIPTION	BY
1	10/24/64	REVISED LENGTH L1, REP. ANCHORS CALL-OUT		APM/ST
THE RALPH W. PARSONS COMPANY		DEPARTMENT OF THE AIR FORCE		
ARCHITECT - ENGINEER		AIR FORCE BALLISTIC MISSILE DIVISION (ARDC)		
417 WEST ANCHORAGE STREET, LOS ANGELES 17, CALIFORNIA		ROCKWELL, CALIFORNIA		
DESIGNED BY: EDK	A-E DRAWING NO.: S-CW-55	SM-68B TECHNICAL FACILITIES STANDARD PLANS		
DRAWN BY: J. L. WILSON	A-E JOB NO.: 1718-1C	CABLEWAY VALVE PANEL SUPPORTS		
CHECKED BY: J. L. WILSON	DATE: 4/7	REVISIONS:		
GRAPHIC SCALE		DATE: 10/24/64		
FOR P.S. SPACINGS SEE DWG. AP-M7		SCALE: AS SHOWN		



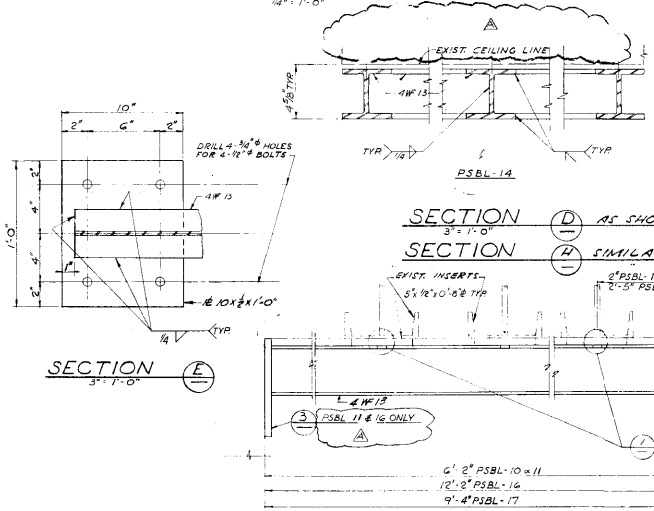
CONDUIT SUPPORT FRAMING UNDERNEATH CEILING



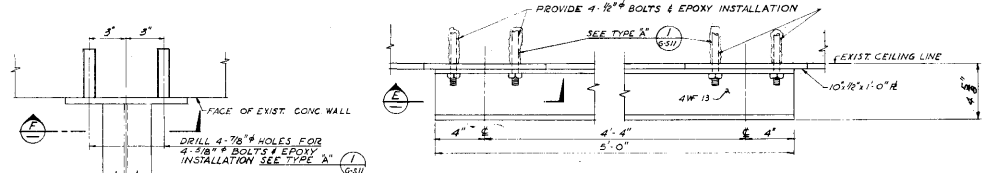
DETAIL 1 (INTERIOR CONDUIT SUPPORT AT EXIST. INSERTS)
DETAIL 2 (TYR END SUPPORT AT EXIST. INSERTS)



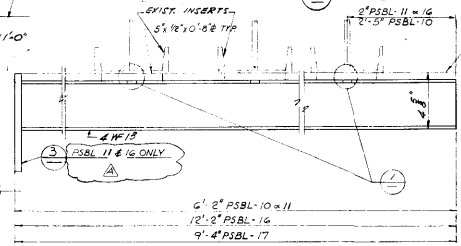
SECTION A SECTION B



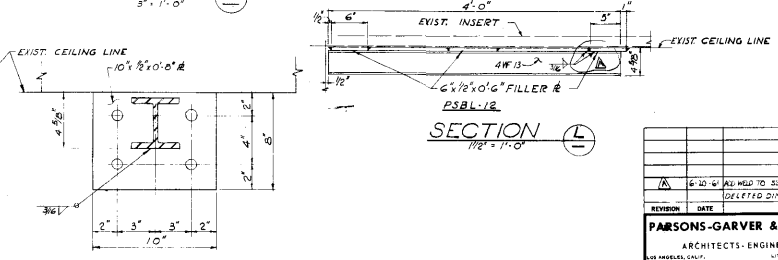
SECTION D AS SHOWN
SECTION E SIMILAR



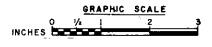
DETAIL 3 SECTION C



SECTION G OPP HAND
SECTION K AS SHOWN

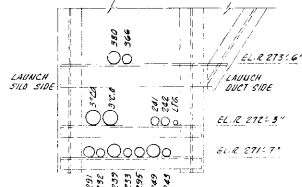


SECTION F SECTION L

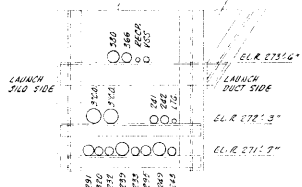


NOTE
ALL DIMENSIONS UNLESS OTHERWISE NOTED
ARE IN INCHES
UNLESS OTHERWISE NOTED
ARE IN FEET AND INCHES
FRACTIONS SHALL BE IN 16THS OF AN INCH
UNLESS OTHERWISE NOTED
ARE IN 8THS OF AN INCH
UNLESS OTHERWISE NOTED
ARE IN 4THS OF AN INCH
UNLESS OTHERWISE NOTED
ARE IN 2THS OF AN INCH
UNLESS OTHERWISE NOTED
ARE IN 1ST OF AN INCH
UNLESS OTHERWISE NOTED
ARE IN WHOLE INCHES
UNLESS OTHERWISE NOTED
ARE IN WHOLE INCHES

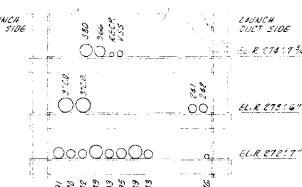
REVISION		DATE	DESCRIPTION	AGENCY UNIT
A		6-10-64	ALL HELD TO SIE L, CHANGE FIELD SEE 2	AWP/AF
B		6-10-64	DELETED DIMENSIONS SECTION 11 SEE 11/16 HAS 10/18	AWP/AF
PARSONS-GARVER & GARVER ARCHITECTS-ENGINEERS 1715-1F LITTLE ROCK, ARKANSAS				
PROJECT NO. SM-68B DRAWING NO. 1715-1F			DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION ARDQ LOS ANGELES 44, CALIFORNIA	
DRAWN BY WU CHECKED BY WU DATE 1715-1F			SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS CABLEWAY BLAST LOCK CONDUIT SUPPORTS	
DATE 1715-1F SPECIFICATION NO. 1715-1F		DRAWN BY WU CHECKED BY WU DATE 1715-1F		
SHEET NO. 123/169 TOTAL SHEETS 169		DRAWN BY WU CHECKED BY WU DATE 1715-1F		



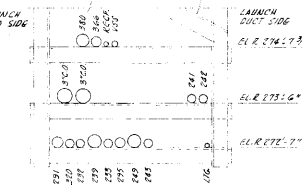
PSI-111



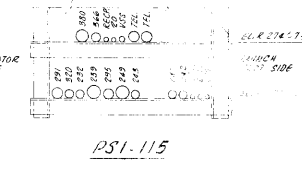
PSI-112



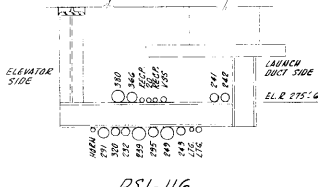
PSI-113



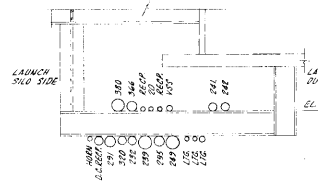
PSI-114



PSI-115



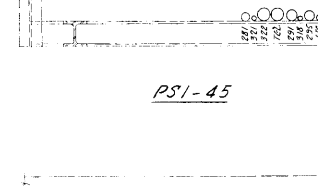
PSI-116



PSI-117



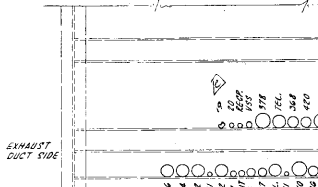
PSI-118



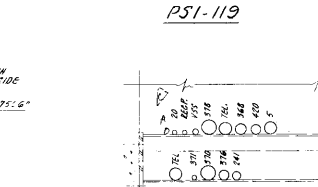
PSI-119



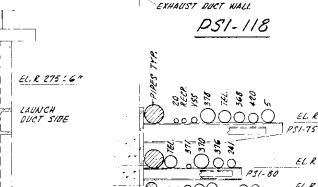
PSI-120



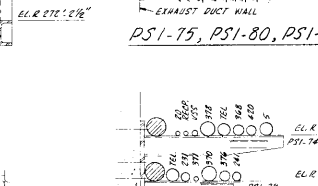
PSI-121



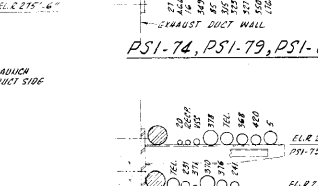
PSI-122



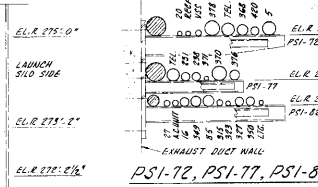
PSI-123, PSI-124, PSI-125



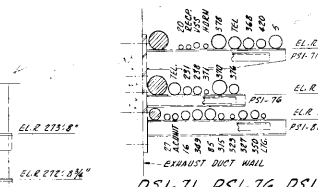
PSI-126, PSI-127, PSI-128



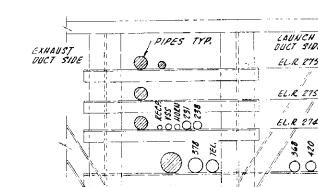
PSI-129, PSI-130, PSI-131



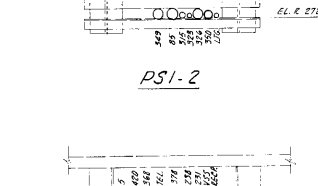
PSI-132, PSI-133, PSI-134



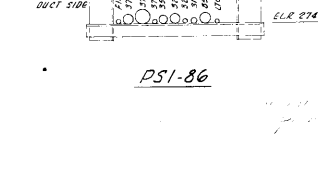
PSI-135, PSI-136, PSI-137



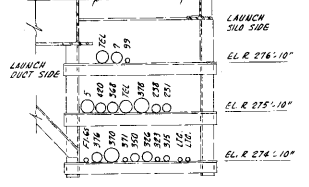
PSI-138



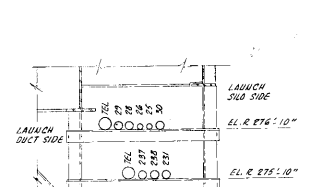
PSI-139



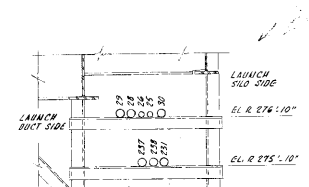
PSI-140



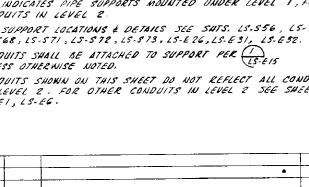
PSI-141



PSI-142



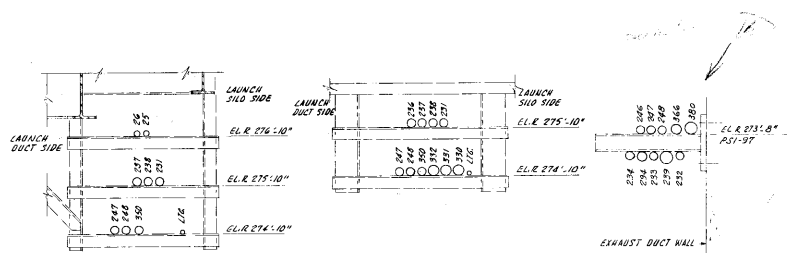
PSI-143



PSI-144

- NOTES:**
- PSI INDICATES PIPE SUPPORTS MOUNTED UNDER LEVEL 1, FOR CONDUITS IN LEVEL 2
 - FOR SUPPORT LOCATIONS & DETAILS SEE SHEETS LS-556, LS-558, LS-548, LS-571, LS-572, LS-573, LS-626, LS-631, LS-632.
 - CONDUITS SHALL BE ATTACHED TO SUPPORT PER 15-15 UNLESS OTHERWISE NOTED.
 - CONDUITS SHOWN ON THIS SHEET DO NOT REFLECT ALL CONDUITS IN LEVEL 2, FOR OTHER CONDUITS IN LEVEL 2 SEE SHEETS LS-61, LS-66.

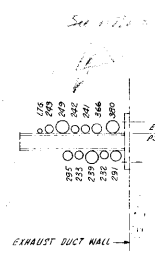
REVISION NO.	DATE	DESCRIPTION	AGENCY
1		ADD CONDUIT TO SUPPORT	
2		ADD CONDUIT TO SUPPORT	
3		ADD CONDUIT TO SUPPORT	
4		ADD CONDUIT TO SUPPORT	
5		ADD CONDUIT TO SUPPORT	
6		ADD CONDUIT TO SUPPORT	
7		ADD CONDUIT TO SUPPORT	
8		ADD CONDUIT TO SUPPORT	
9		ADD CONDUIT TO SUPPORT	
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56		ADD CONDUIT TO SUPPORT	
57		ADD CONDUIT TO SUPPORT	
58		ADD CONDUIT TO SUPPORT	
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98		ADD CONDUIT TO SUPPORT	
99		ADD CONDUIT TO SUPPORT	
100		ADD CONDUIT TO SUPPORT	



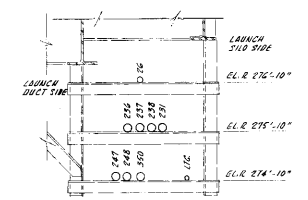
PSI-90
N.T.S.

PSI-131
N.T.S.

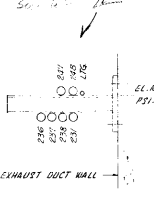
PSI-91
N.T.S.



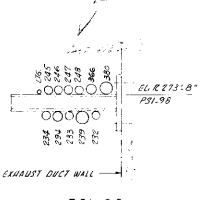
PSI-101
N.T.S.



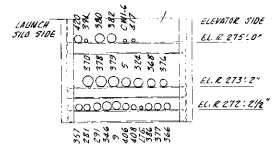
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N.T.S.



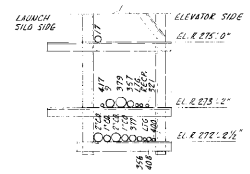
PSI-94
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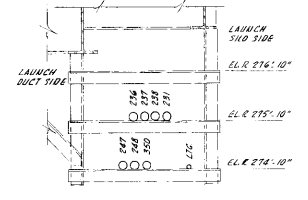
PSI-98
N.T.S.



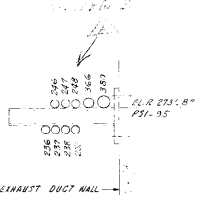
PSI-121
N.T.S.



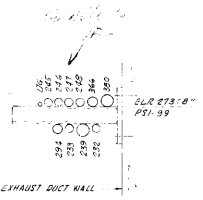
PSI-122
N.T.S.



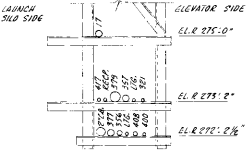
PSI-92
N.T.S.



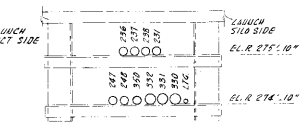
PSI-95
N.T.S.



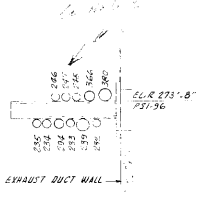
PSI-99
N.T.S.



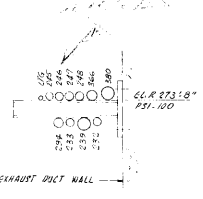
PSI-123
N.T.S.



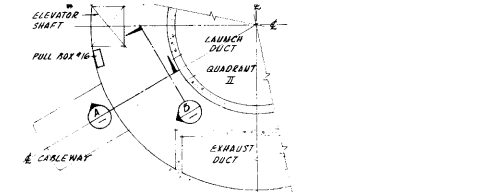
PSI-93
N.T.S.



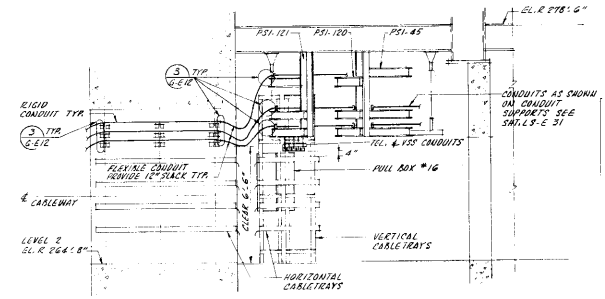
PSI-96
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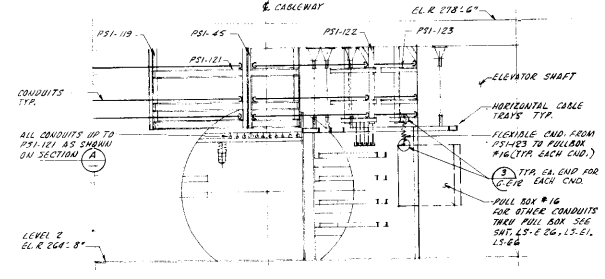
PSI-100
N.T.S.



KEY PLAN - LEVEL #2
78" x 7'-0"

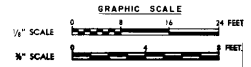


SECTION A
3/8" = 1'-0"



SECTION B
3/8" = 1'-0"

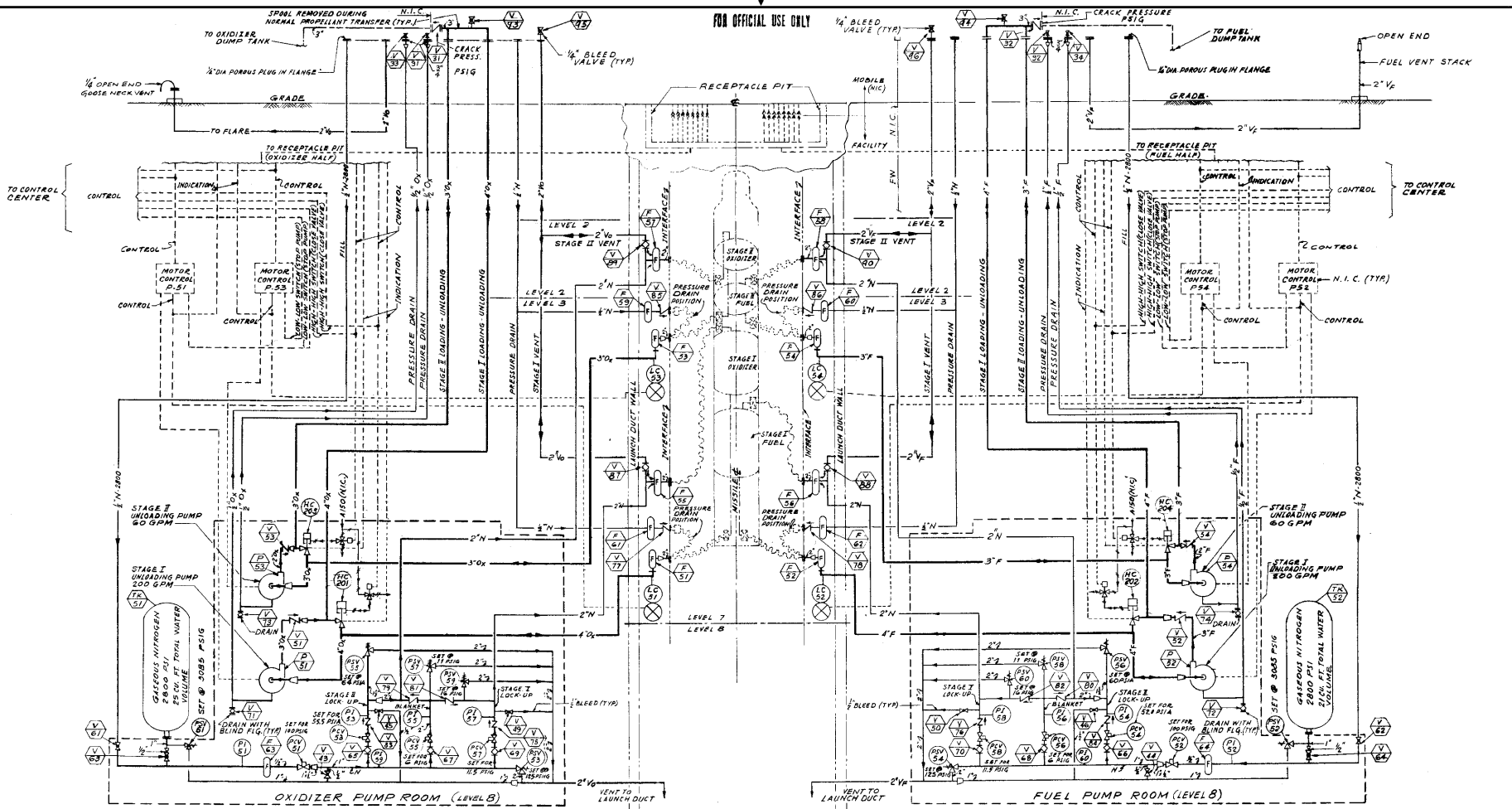
NOTE:
1. SEE NOTES 1, 2, 3, 4 ON SHEET LS-E-31
2. CONDUITS FROM PSI-121 TO PSI-119 SHALL BE ROUTED THROUGH PSI-120



DATE: 6-JUN-1981
BY: [Signature]
CHECKED BY: [Signature]
DESIGNED BY: [Signature]

PROJECT NO. 175-110 DATE 11/15/80 DESCRIPTION SM-68B TECHNICAL FACILITIES LITTLE ROCK, ARKANSAS DRAWING NO. 1715-1P SHEET NO. 22 DATE 6-JUN-1981 BY: [Signature] CHECKED BY: [Signature] DESIGNED BY: [Signature]		DEPARTMENT OF THE AIR FORCE AIR FORCE MILITARY MESSAGE DIVISION (AMSD) INGLEWOOD, CALIFORNIA SM-68B TECHNICAL FACILITIES LITTLE ROCK AFB, ARKANSAS LAUNCH SILD CONDUIT SUPPORTS LEVEL 2 SHEET 2	
REVISION NO. 1 DATE 11/15/80 DESCRIPTION DRAWN BY: [Signature] CHECKED BY: [Signature] DESIGNED BY: [Signature]	REVISION NO. 2 DATE 11/15/80 DESCRIPTION DRAWN BY: [Signature] CHECKED BY: [Signature] DESIGNED BY: [Signature]	REVISION NO. 3 DATE 11/15/80 DESCRIPTION DRAWN BY: [Signature] CHECKED BY: [Signature] DESIGNED BY: [Signature]	REVISION NO. 4 DATE 11/15/80 DESCRIPTION DRAWN BY: [Signature] CHECKED BY: [Signature] DESIGNED BY: [Signature]

FOR OFFICIAL USE ONLY



OXIDIZER TRANSFER SYSTEM

FUEL TRANSFER SYSTEM

- NOTES:
 1. FOR GENERAL NOTES SEE SHEET PF-P2.
 2. FOR SYMBOL LEGEND SEE SHEET PF-P12.
 3. ALL WIRING INDICATED (---) NOT IN CONTRACT.

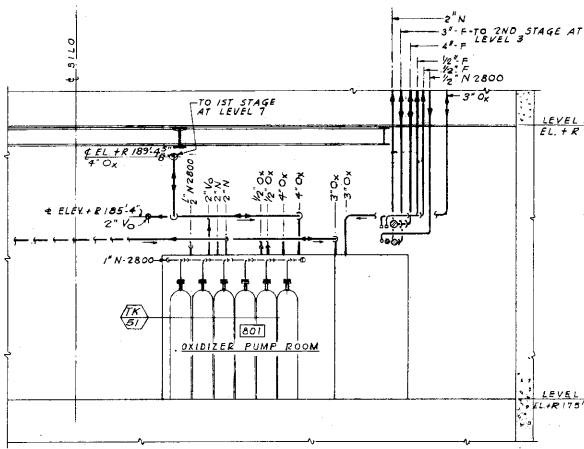
REFERENCE DRAWING
 N. I. C.

ALL WORK SHOWN ON THIS DRAWING IS N.I.C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

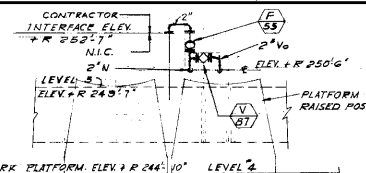
DATE: 11/15/59
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

REVISION NO.	DATE	DESCRIPTION	AGENCY	BY
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 617 WEST SEVENTH STREET LOS ANGELES 11, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE MAINTENANCE DIVISION (AMC) INGLEWOOD, CALIFORNIA		
SHEET NO. 11 DRAWN BY: R-PF-P1 CHECKED BY: [Signature] DATE: 11/15/59	SM-68B TECHNICAL FACILITIES STANDARD PLANS PROPELLANT TRANSFER SYSTEM FACILITY P AND LD.		DATE: 11/15/59 SCALE: AS SHOWN SHEET: 177	

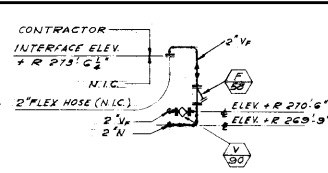
FOR OFFICIAL USE ONLY



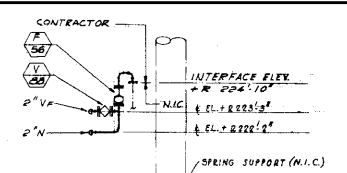
SECTION A REF
PP-10 PP-P9



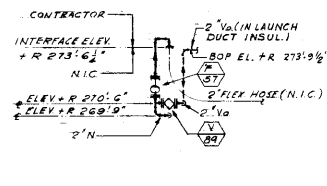
SECTION H REF
PP-10 PP-P6



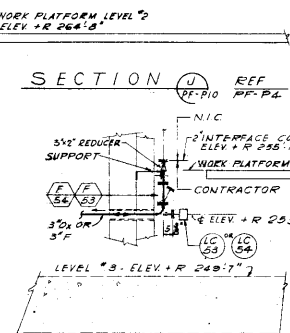
SECTION J REF
PP-10 PP-P4



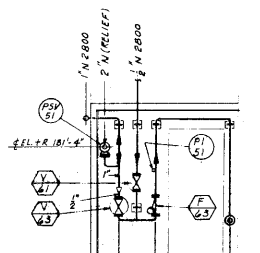
SECTION K REF
PP-10 PP-P7



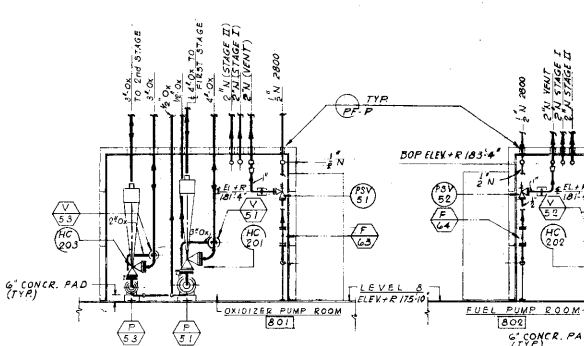
SECTION L REF
PP-10 PP-P4



SECTION M REF
PP-10 PP-P5
(TYP. 2 PLACES)

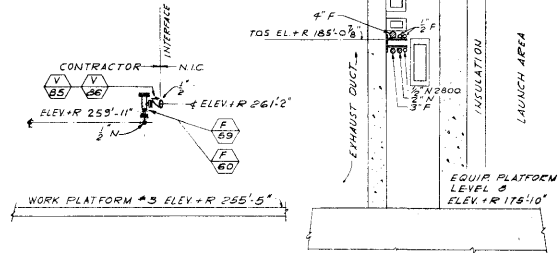


SECTION P REF
PP-10 PP-P9
OXIDIZER PUMP ROOM
FUEL PUMP ROOM OPPOSITE HAND



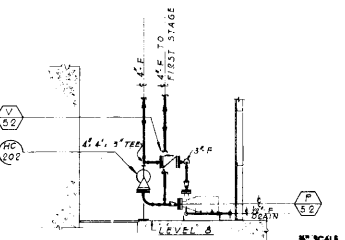
SECTION C REF
PP-10 PP-P5

SECTION D REF
PP-10 PP-P5

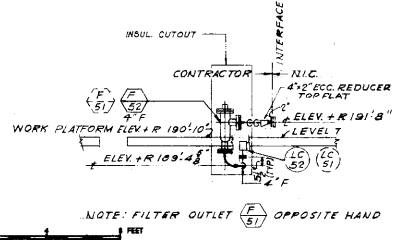


SECTION N REF
PP-10 PP-P5
(TYP. 2 PLACES)

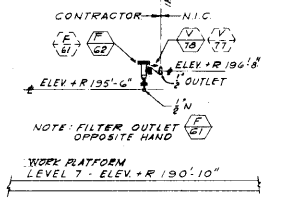
SECTION B REF
PP-10 PP-P5



SECTION E REF
PP-10 PP-P5



SECTION G REF
PP-10 PP-P5
NOTE: FILTER OUTLET OPPOSITE HAND



SECTION F REF
PP-10 PP-P5
NOTE: FILTER OUTLET OPPOSITE HAND

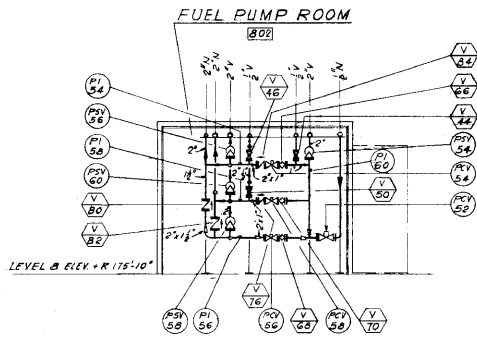
NOTES:
1. FOR GENERAL NOTES SEE SHEET PP-P2

REFERENCE DRAWING

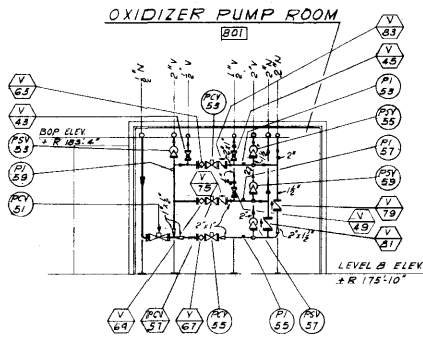
N.I.C.

ALL WORK SHOWN ON THIS DRAWING IS
N.I.C. (NOT IN CONTRACT). THE CONTRACTOR
SHALL LEAVE SPACE FOR THE INSTALLATION
OF THE PIPING SYSTEM SHOWN.

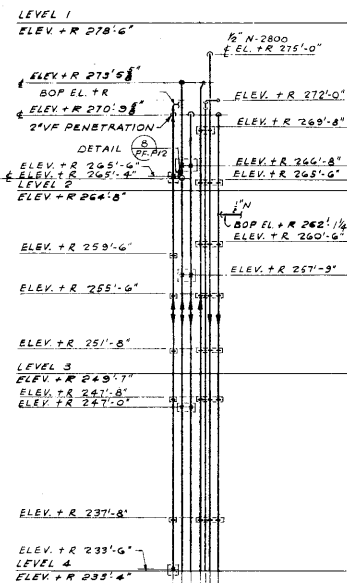
REVISION NO.	DATE	DESCRIPTION	AGENCY BY
THE RALPH M. PARSONS COMPANY		DEPARTMENT OF THE AIR FORCE	
ARCHITECT - ENGINEER		AIR FORCE BALUSTIC MISSILE DIVISION (AFBC)	
837 WEST GARDNER STREET, LOS ANGELES 17, CALIFORNIA		HOLEWOOD, CALIFORNIA	
DESIGNED BY: K. B. L.	PP-PP-P10	SM-68B TECHNICAL FACILITIES	
CHECKED BY: H. B. L.	1715	STANDARD PLANS	
DATE: 1/13	1/3	PROPELLANT TRANSFER SYSTEM	
LAUNCH SILO PIPING		SECTIONS LEVEL 2, 7 & 8	
SCALE: 1/4" = 1'-0"	SCALE: 1/8" = 1'-0"	SCALE: 1/8" = 1'-0"	
123/186		186	



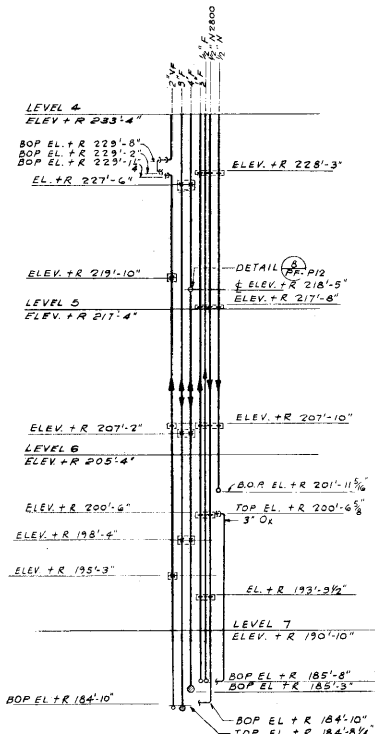
SECTION (G) REF
 1/8" = 1'-0" REF: P11 PF: P3



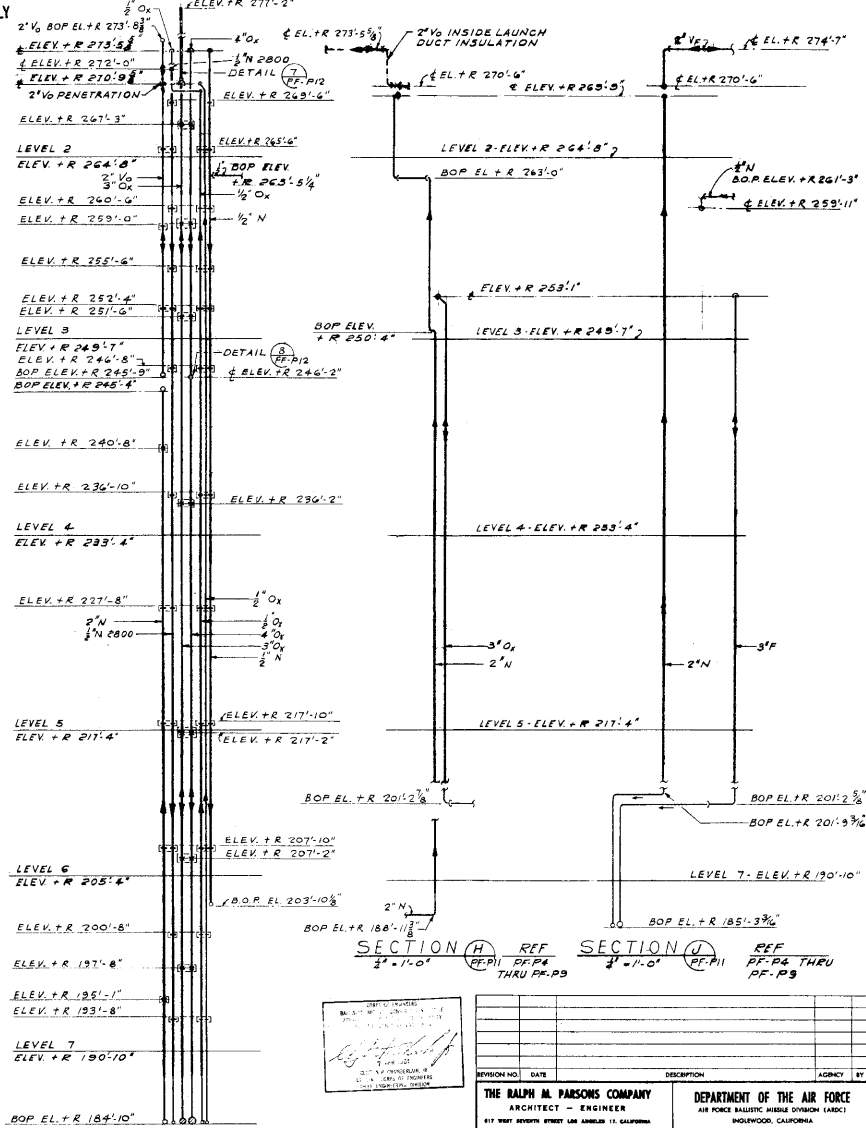
SECTION (F) REF
 1/8" = 1'-0" REF: P11 PF: P3



SECTION (A) REF
 1/8" = 1'-0" REF: P11 PF: P4, P5, P6



SECTION (A) REF
 1/8" = 1'-0" REF: P11 PF: P7, P8, P9



DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 1/23/61

REVISION NO.	DATE	DESCRIPTION	AGENCY BY

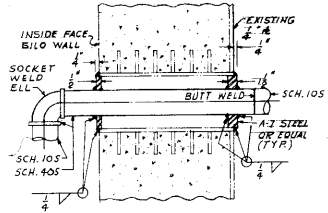
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 417 WEST BERRY STREET, LOS ANGELES 11, CALIFORNIA	DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (AFBD) WAGLEWOOD, CALIFORNIA
DRAWN BY: KOBAL CHECKED BY: LEBOON DATE: 1/15/61	SM-688 TECHNICAL FACILITIES STANDARD PLANS PROPELLANT TRANSFER SYSTEM LAUNCH SILO PIPING SECTIONS LEVEL 8 & 8 MISCELLANEOUS DETAILS
PROJECT NO.: 1715-1 DRAWING NO.: 123/187	SHEET NO.: 187 TOTAL SHEETS: 187

SECTION (B) REF
 1/8" = 1'-0" REF: P11 PF: P4 THRU P9

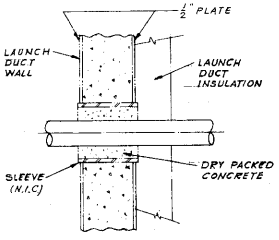
REFERENCE DRAWING
 N.I.C.

ALL WORK SHOWN ON THIS DRAWING IS N.I.C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

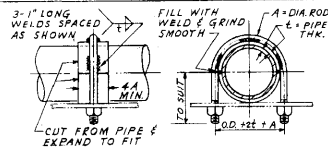
SYMBOL LEGEND



DETAIL 1
NO SCALE REF. PF-P2, PF-P4
SILO WALL SLEEVE

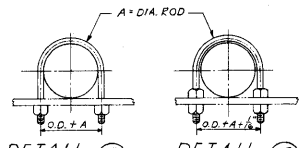


DETAIL 2
NO SCALE REF. PF-P4 THRU PF-P5
LAUNCH DUCT SLEEVE

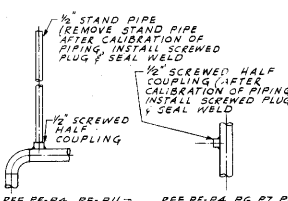


DETAIL 3
NO SCALE
PIPE SIZE A
1/2\"/>

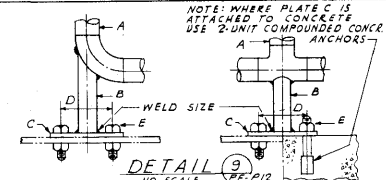
1/2" - 1"	3/8"
1 1/4" - 2"	1/2"
2 1/2" - 3"	5/8"
4" - 6"	3/4"



DETAIL 4
NO SCALE
PIPE SIZE A
1/2" - 1" 3/8"
1 1/4" - 2" 1/2"
2 1/2" - 3" 5/8"
4" - 6" 3/4"

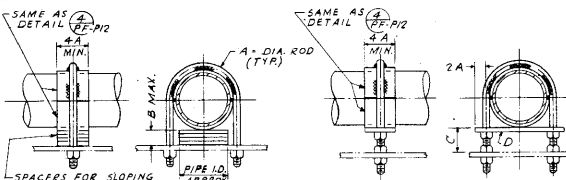


DETAIL 5
NO SCALE
REF. PF-P4, PF-P11
1/2" STAND PIPE (REMOVE STAND PIPE AFTER CALIBRATION OF PIPING; INSTALL SCREWED PLUG & SEAL WELD)



DETAIL 6
NO SCALE
NOTE: WHERE PLATE C IS ATTACHED TO CONCRETE USE 2 UNIT COMPOUNDED CONCR ANCHORS

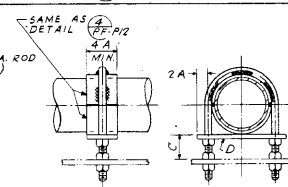
PIPE SIZE	PIPE SIZE	PLATE	BOLT CTR. TO BOLT CTR.	BOLT SIZE	WELD SIZE
1/2"	1/2"	1/2" SCH. 40	5" X 5" X 3/8"	3/8"	3/8" DIA.
3/4"	3/4"	1/2"	5" X 5" X 3/8"	3/8"	3/8" DIA.
1"	1"	1/2"	5" X 5" X 3/8"	3/8"	3/8" DIA.
1 1/4"	1 1/4"	1/2"	5" X 5" X 3/8"	3/8"	3/8" DIA.
1 1/2"	1 1/2"	1/2"	5" X 5" X 3/8"	3/8"	3/8" DIA.
2"	2"	1/2"	6" X 6" X 1/2"	1/2"	1/2" DIA.
2 1/2"	2 1/2"	1/2"	6" X 6" X 1/2"	1/2"	1/2" DIA.
3"	3"	1/2"	8" X 8" X 1/2"	3/4"	3/4" DIA.
3 1/2"	3 1/2"	1/2"	8" X 8" X 1/2"	3/4"	3/4" DIA.
4"	4"	1/2"	8" X 8" X 1/2"	3/4"	3/4" DIA.
6"	6"	1/2"	8" X 8" X 1/2"	3/4"	3/4" DIA.



DETAIL 7
NO SCALE
PIPE SIZE A
1/2" - 1" 3/8"
1 1/4" - 2" 1/2"
2 1/2" - 3" 5/8"
4" - 6" 3/4"

PIPE SIZE	A	B	MIN.	C	MAX.	TAPERED WIDTH
1/2" - 1"	3/8"	1/2"	1 1/2"	4"	1/4"	1/2"
1 1/4" - 2"	1/2"	2"	2"	4"	3/8"	2"
2 1/2" - 3"	5/8"	2 1/2"	2 1/2"	4"	1/2"	2 1/2"
4" - 6"	3/4"	3"	3"	4 1/2"	3/4"	3"

DETAIL 8
NO SCALE
REF. PF-P4, PG, PT, PH
1/2" SCREWED HALF COUPLING (AFTER CALIBRATION OF PIPING INSTALL SCREWED PLUG & SEAL WELD)



DETAIL 9
NO SCALE
TYPE 'X' SUPPORTS

- ± ELEV. CENTER LINE ELEVATION REFERENCE
- FIGD. FLANGED
- GPM. GALLONS PER MINUTE
- I.D. INSIDE DIAMETER
- INVEL. INVERT ELEVATION
- N.I.C. NOT IN CONTRACT (---)
- N.T.S. NOT TO SCALE
- O.D. OUTSIDE DIAMETER
- PL. PLATE
- R.I. PIPE SUPPORT
- R.E.D. REDUCER OR REDUCING
- S.H.T. SHEET
- S.S.T. STAINLESS STEEL
- SECT. SECTION
- TYR. TOP OF STEEL

- Equipment Abbreviation
- Filter
- Hose
- Heat Exchanger
- Pump
- Tank
- Valve
- Local Instrument
- Board Mounted Instrument
- Local Blind Transmitter or Pneumatic Relay
- Pneumatic Line
- Electrical Line
- Pressure Indicator
- Temperature Indicator
- Test Well (Thermometer)
- Level Indicator
- Level Control
- Temperature Recorder-Controller
- Element
- Manually Operated
- Pressure Control Valve (Self-Actuating)
- Pressure Safety Valve
- Temperature Safety Valve
- Flow Glass (Observation)
- Flow Restriction
- Drift
- B.O.P. Bottom of Pipe
- BTU/HR. British Thermal Units per Hour
- Cont. Continuation
- Cond. Tr. Conditioning Trailer
- Cu. Ft. Cubic Feet
- El. or Elev. Elevation
- Fuel (Propellant)
- Vent (Fuel)
- Oxidizer (Propellant)
- Vent (Oxidizer)
- N Nitrogen (100 PSIG)
- N-2800 Gaseous Nitrogen (2800 PSIG)
- FW Fire Protection Water
- G Glycol Supply
- GR Glycol Return
- A-150 Utility Air (150 PSIG) (N.I.C.)
- Gate Valve
- Globe Valve
- Plug Valve or Ball Valve
- Three Way Plug Valve
- Needle Valve
- Check Valve
- Pressure Safety Valve or Temperature Safety Valve
- Piston Operated Valve (Pneumatic)
- Electrically Operated Valve (Solenoid or Motor)
- Self-Contained Regulator
- Filter (Flow Diagram Only)
- Filter 'L' Type
- Filter 'Y' Type
- Flexible Hose
- Coupling (Quick Disconnect)
- Flanged Joint
- Blind Flange
- Welded Pipe Cap
- Screwed Pipe Cap
- Reducer
- Union
- Pipe Guide
- Pipe Anchor - Fixed
- Pipe Anchor - Directional
- Slope Line (Down)

REFERENCE DRAWING

N.I.C.

ALL WORK SHOWN ON THIS DRAWING IS N.I.C. (NOT IN CONTRACT) THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

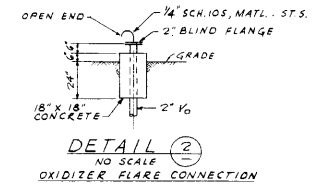
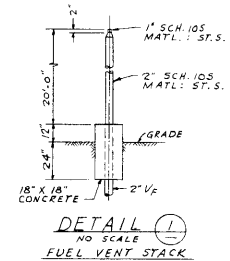
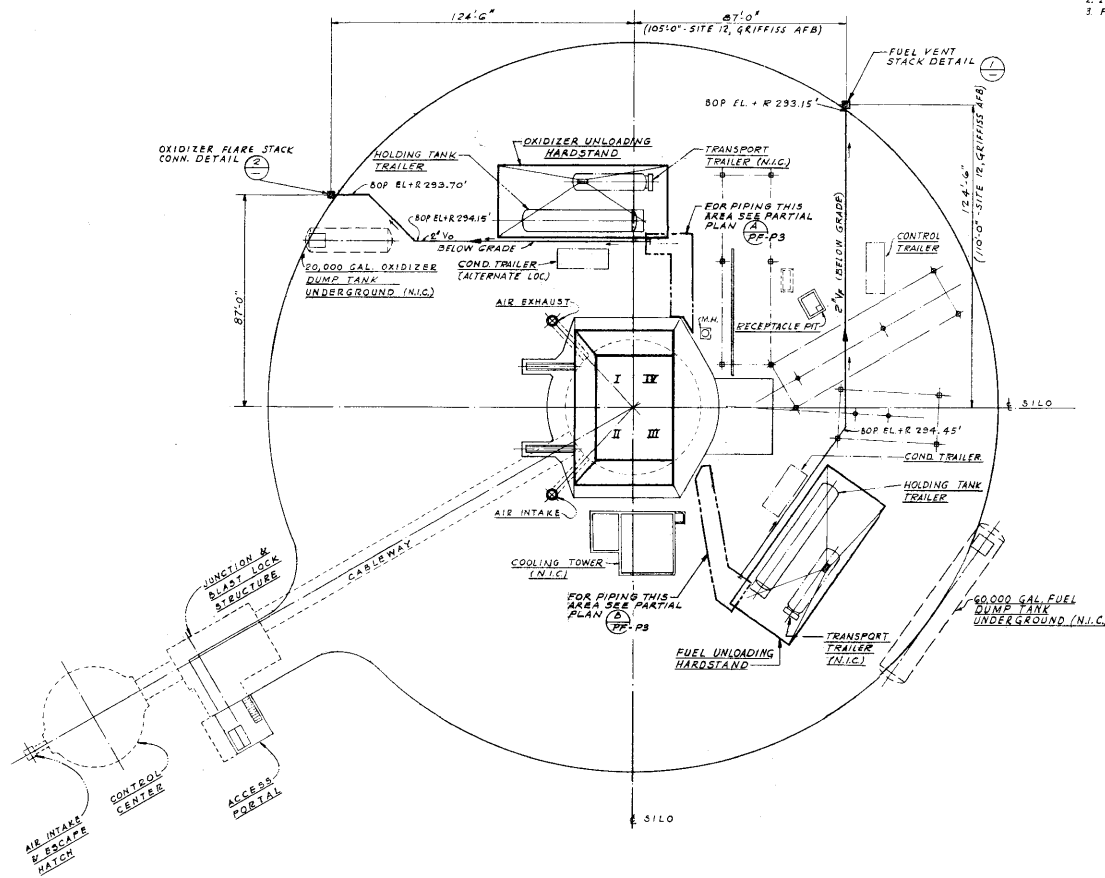
REVISION NO.	DATE	DESCRIPTION	AGENCY	BY
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 817 WEST SEVENTH STREET, LOS ANGELES 11, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (AFBCD) INGWOOD, CALIFORNIA		
DESIGNED BY: R-12	DATE: 12/15/54	SCALE: 1/8" = 1'-0"	SM-68B TECHNICAL FACILITIES STANDARD PLANS	
DRAWN BY: R-12	DATE: 12/15/54	SCALE: 1/8" = 1'-0"	PROPELLANT TRANSFER SYSTEM SYMBOL LEGEND AND MISCELLANEOUS DETAILS	
CHECKED BY: R-12	DATE: 12/15/54	SCALE: 1/8" = 1'-0"	SPECIFICATION NO. 12-12	
APPROVED BY: R-12	DATE: 12/15/54	SCALE: 1/8" = 1'-0"	DATE: 12/15/54	



FOR OFFICIAL USE ONLY

GENERAL NOTES

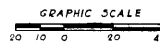
1. IT IS THE DESIGN INTENT THAT THE LAUNCH SILEO EQUIPMENT PLATFORMS BE CONSTRUCTED FROM BOTTOM UPWARD IN SUCCESSIVE LEVELS. THE CONTRACTOR MUST COORDINATE STEEL, PIPING, SUPPORTS, DUCTS AND ELECTRICAL WORK FOR THIS PROGRESSIVE EFFORT.
2. INTERFACE TOLERANCES SHALL BE 1/4" AND 0/1".
3. FOR SYMBOL LEGEND SEE SHEET PF-P12.



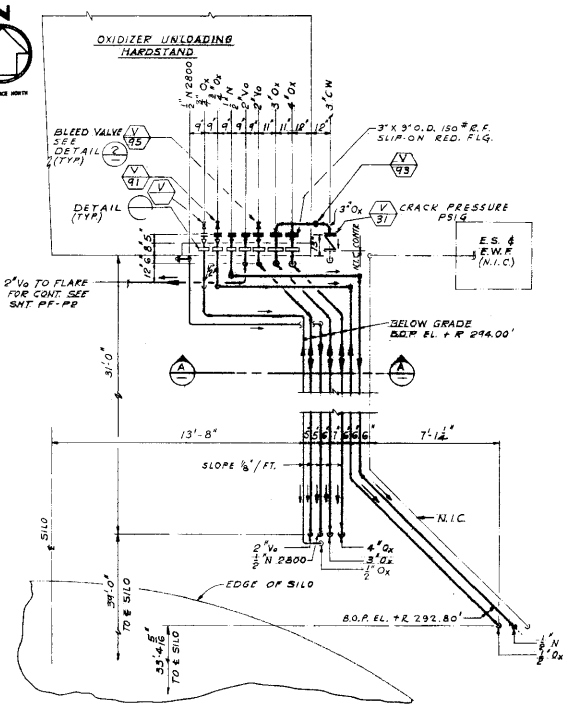
REFERENCE DRAWING
N. I. C.

ALL WORK ON THIS DRAWING IS N.I.C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

FOR OFFICIAL USE ONLY

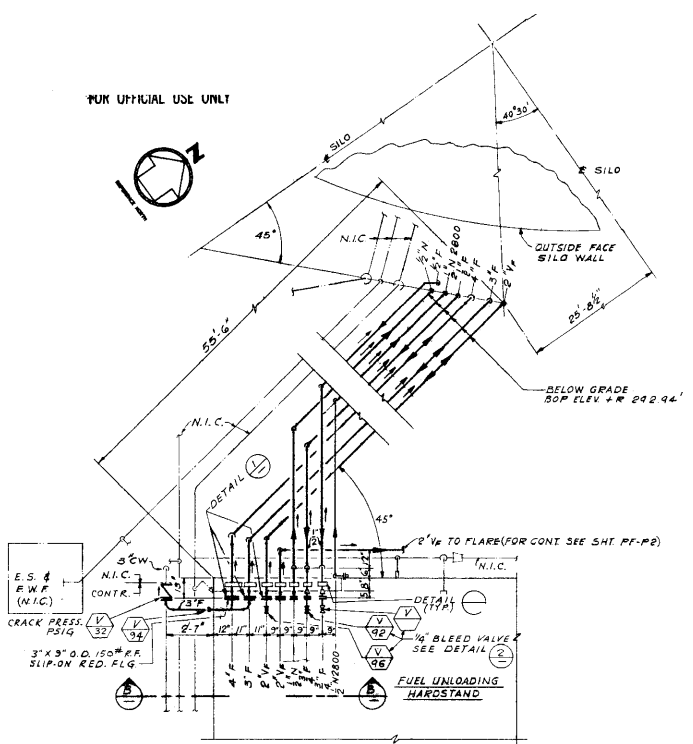


REVISION NO.	DATE	DESCRIPTION	AGENCY	BY
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 517 WEST BOWLING GREEN STREET, LOS ANGELES 14, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTICS MISSILE DIVISION (AFBD) INGLEWOOD, CALIFORNIA		
DESIGNED BY: E.O.B.A.L.	A.E. SHEET NO.: R-PF-P2	SM-688 TECHNICAL FACILITIES STANDARD PLANS		
DRAWN BY: E.O.B.A.L.	CHECKED BY: E.O.B.A.L.	PROPPELLANT TRANSFER SYSTEM PLOT PLAN AND PIPING AT GRADE		
DATE: 1715	SCALE: 1" = 20'-0"	DATE: 123178	NO.:	178

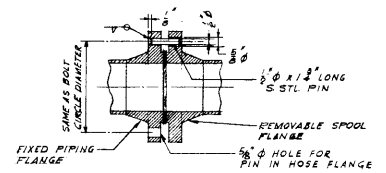


PARTIAL PLAN (A) REF PF-P2
BP-P3

FOR OFFICIAL USE ONLY

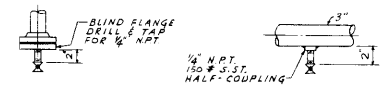


PARTIAL PLAN (B) REF PF-P2
BP-P3



ELEVATION
NOTE: LOCATE PINS DIAMETRICALLY OPPOSED, AND EQUALLY SPACED BETWEEN BOLT HOLES ON A VERTICAL LINE.

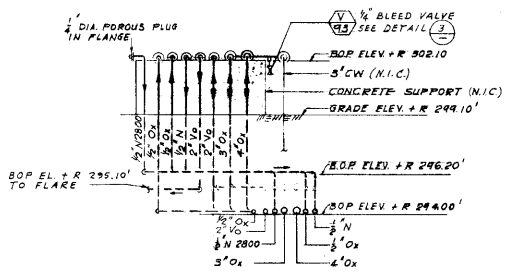
DETAIL (1) NO SCALE
SAFETY FLANGE ASSEMBLY



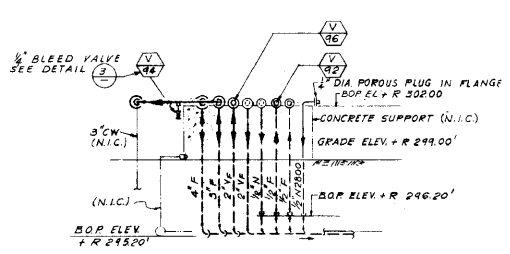
DETAIL (2) NO SCALE

DETAIL (3) NO SCALE

- NOTES:
1. FOR GENERAL NOTES SEE SHEET PF-P2.
2. FOR SYMBOL LEGEND SEE SHEET PF-P12.
3. FOR LINES GOING INTO SILO SEE SHEET PF-P4.



SECTION (A)



SECTION (B)

REFERENCE DRAWING
N.I.C.

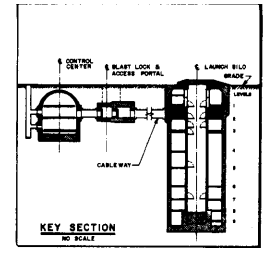
ALL WORK SHOWN ON THIS DRAWING IS N.I.C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

REVISION NO.	DATE	DESCRIPTION	AGENCY BY

THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 817 WEST BETHANY STREET, LOS ANGELES 18, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (AROC) WOODWARD, CALIFORNIA	
DESIGNED BY: A. STEIN DRAWN BY: LEBOW CHECKED BY: [Signature] DATE: 1/23/64	PROJECT NO.: R-PF-P3 Dwg. No.: 1715-1 SHEET NO.: 123	SM-68B TECHNICAL FACILITIES STANDARD PLANS PROPELLANT TRANSFER SYSTEM OXIDIZER AND FUEL HARDSTAND PIPING PLANS AND SECTIONS	
APPROVED BY: [Signature] DATE: 1/23/64	DATE: 1/23/64 SCALE: 3/8" = 1'-0" DRAWING NO.: 123/173 SHEET NO.: 179	REVISION NO. DATE DESCRIPTION 1 1/23/64 179	

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FOR OFFICIAL USE ONLY



- NOTES:
- 1. FOR CONT. OF ALL LINES GOING DOWN SEE SH. PP-05
 - 2. FOR CONT. OF ALL LINES GOING UP SEE SH. PP-03
 - 3. FOR GENERAL NOTES SEE SH. PP-02
 - 4. FOR SYMBOL LEGEND SEE SH. PP-012

REFERENCE DRAWING
N.I.C.

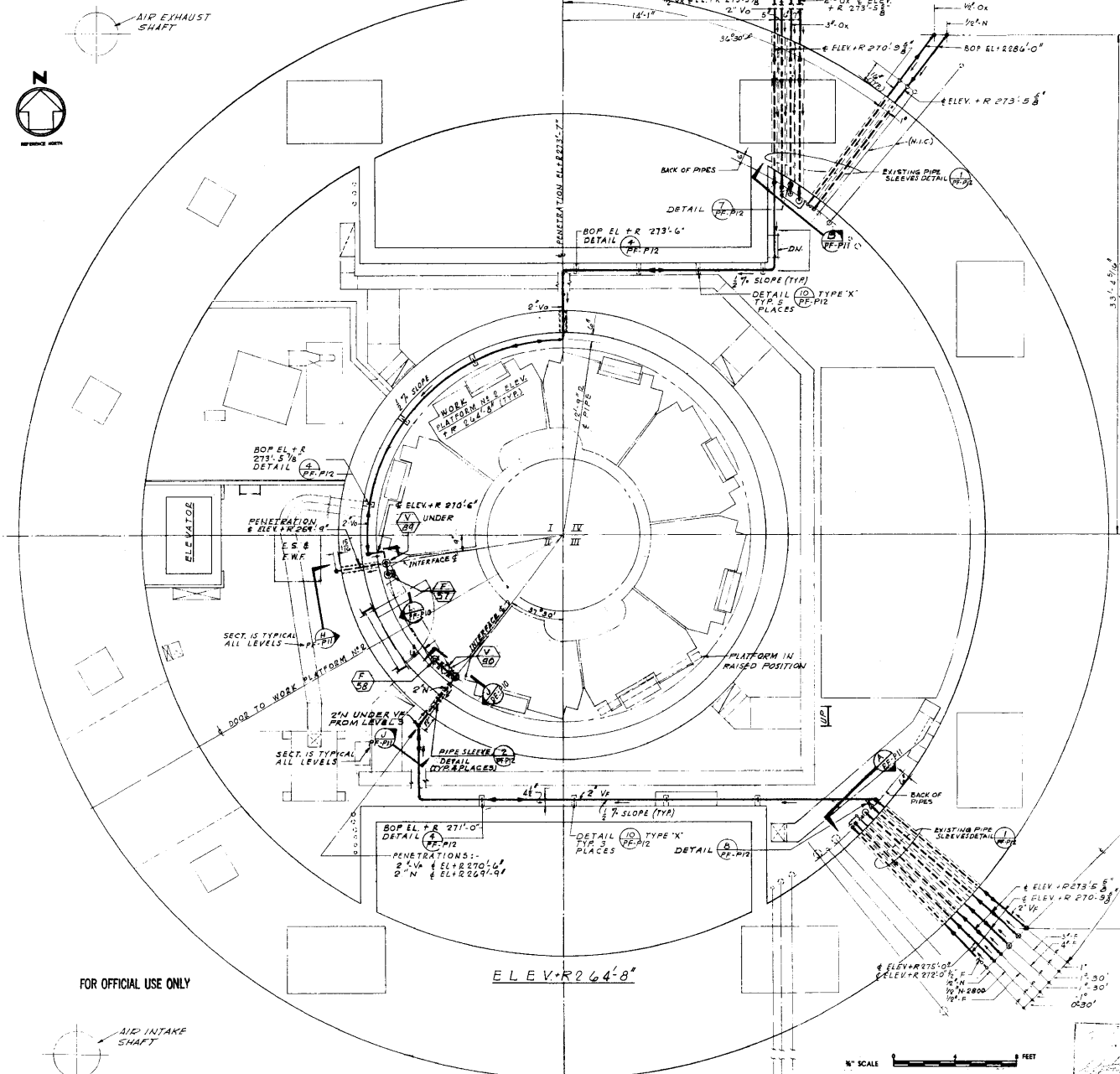
ALL WORK SHOWN ON THIS DRAWING IS N.I.C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

REVISION	DATE	DESCRIPTION	AGENCY	INIT

THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 817 WEST BEVERLY DRIVE LOS ANGELES 11, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (ARDC) CALIFORNIA	
PROJECT NUMBER K03AL	PROJECT TITLE R-PF-P4	SM-68B TECHNICAL FACILITIES STANDARD PLANS	
DATE 2001	SCALE 1/16"=1'	PROPELLANT TRANSFER SYSTEM LAUNCH SILO PIPING PLAN LEVEL 2	
DESIGNED BY M. J. H. H.	CHECKED BY M. J. H. H.	DATE 10/24/01	PROJECT NO. 123/180
DRAWING NO. 123/180		DATE 10/24/01	SHEET 180



AIR EXHAUST
SHAFT



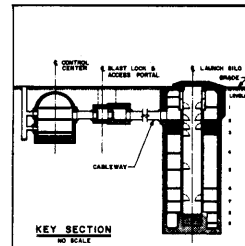
ELEV. +R 274' 8"



FOR OFFICIAL USE ONLY

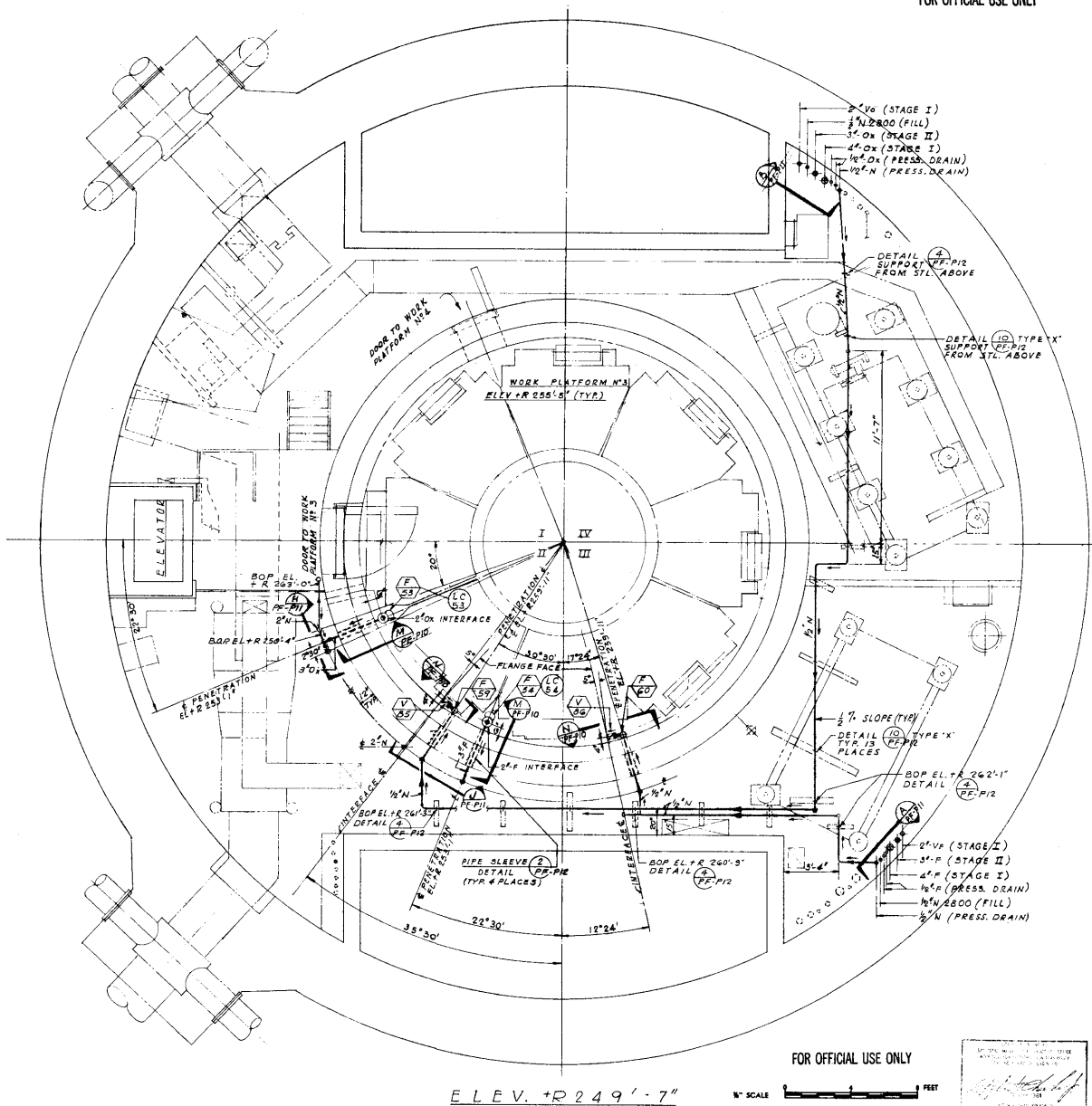


FOR OFFICIAL USE ONLY



NOTES:-

1. FOR CONT. OF ALL LINES GOING DOWN SEE SHT. PF-P6
2. FOR CONT. OF ALL LINES GOING UP SEE SHT. PF-P4
3. FOR GENERAL NOTES SEE SHT. PF-P2
4. FOR SYMBOL LEGEND SEE SHT. PF-P2



REFERENCE DRAWING
N. I. C.

ALL WORK SHOWN ON THIS DRAWING IS N. I. C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

REVISION NO.	DATE	DESCRIPTION	AGENCY	BY

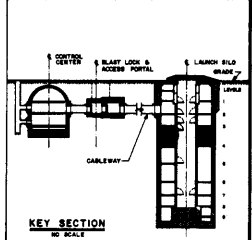
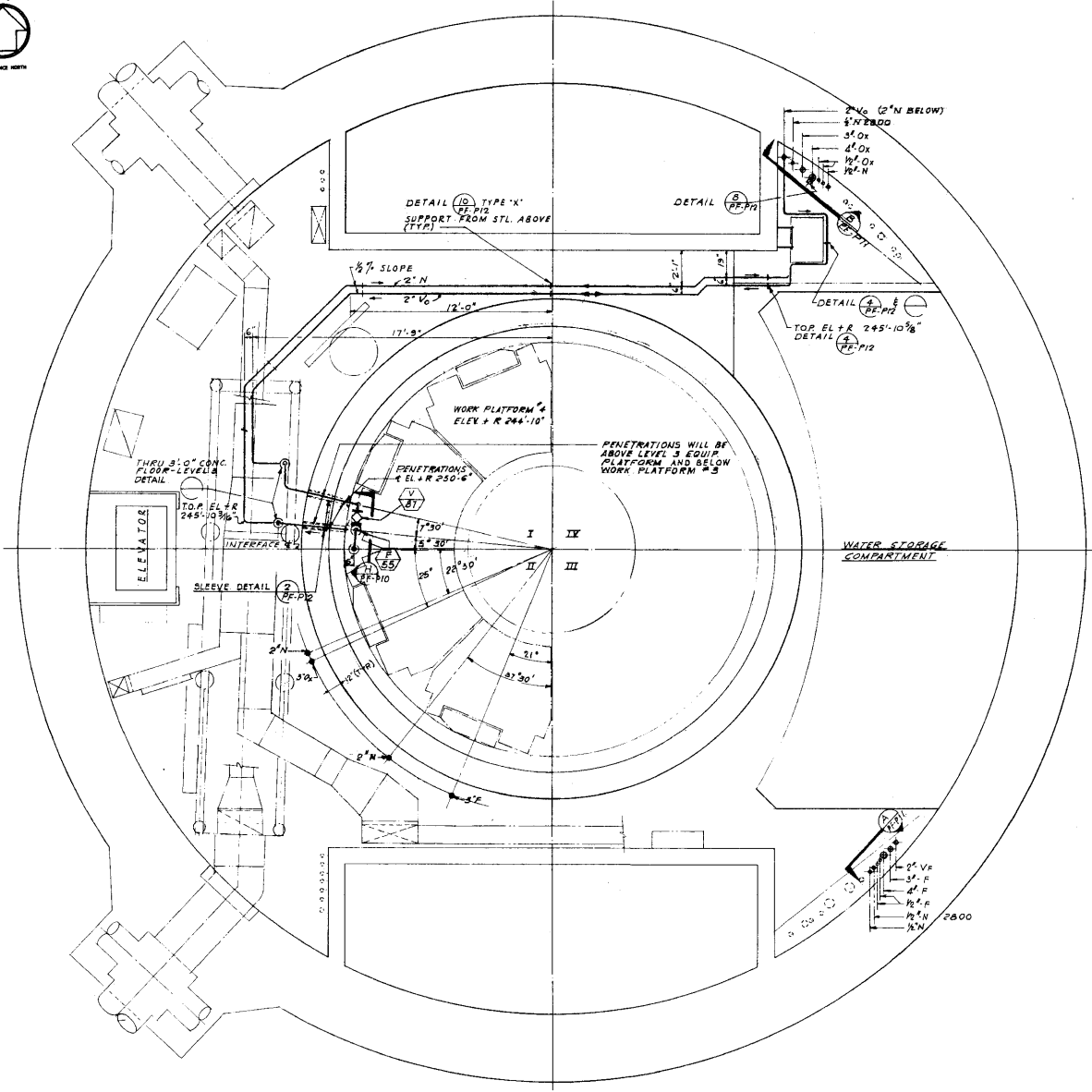
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 817 WEST 89TH STREET, LOS ANGELES 14, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (AMBD) INGLEWOOD, CALIFORNIA	
DRAWN BY: R. O. B. A. L. CHECKED BY: K. S. B. A. L. DATE: 11/15/61	A. S. SHEET NO.: R-PF-P5 DATE: 11/15/61 SCALE: 3/8" = 1'-0"	SM-68B TECHNICAL FACILITIES STANDARD PLANS PROPELLANT TRANSFER SYSTEM LAUNCH SILO PIPING PLAN LEVEL 3	
PROJECT NO.: 1231/81 SHEET NO.: 181		DATE: APR 7 1961 SCALE: 3/8" = 1'-0"	

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ELEV. +R 249'-7"



APPROVED FOR CONSTRUCTION
 [Signature]
 PROJECT ENGINEER



- NOTES :-**
- 1 FOR CONT. OF ALL LINES GOING DOWN SEE SHT. PF-P7
 - 2 FOR CONT. OF ALL LINES GOING UP. SEE SHT. PF-P5
 - 3 FOR GENERAL NOTES SEE SHT. PF-P2
 - 4 FOR SYMBOL LEGEND SEE SHT. PF-P12

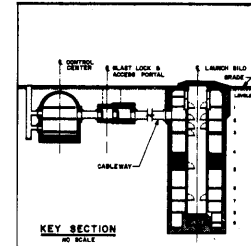
REFERENCE DRAWING
N.I.C.

ALL WORK SHOWN ON THIS DRAWING IS N.I.C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

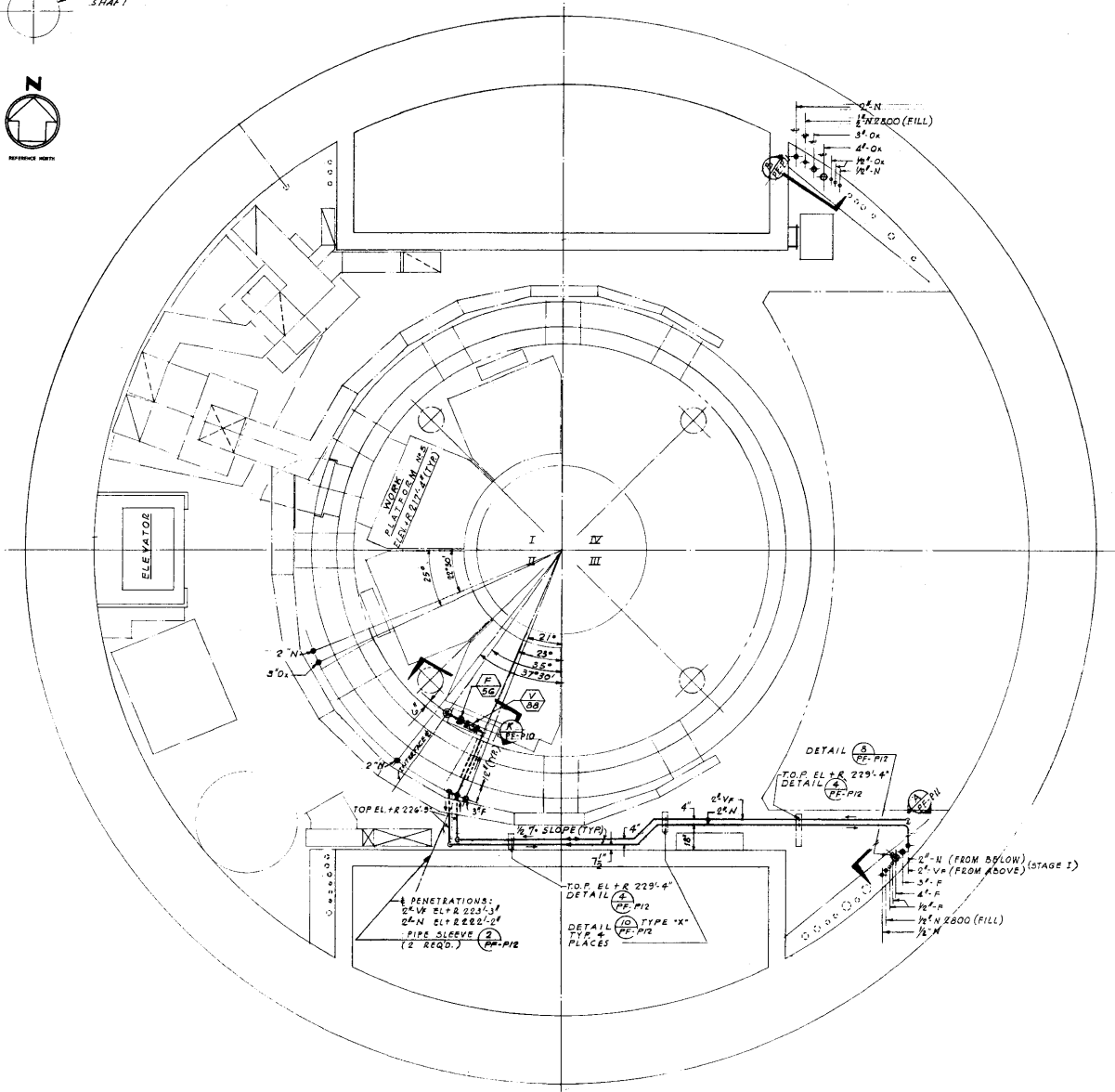
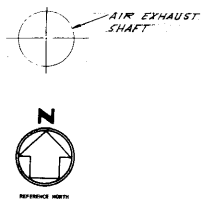
ELEV. +R 233'-4"



REVISION NO.		DATE	DESCRIPTION	AGENCY	BY
THE RALPH M. PARSONS COMPANY		ARCHITECT - ENGINEER		DEPARTMENT OF THE AIR FORCE	
381 WEST BEVERLY STREET LOS ANGELES 23 CALIFORNIA		R-PP-P8		SM-688 TECHNICAL FACILITIES STANDARD PLANS	
DESIGNED BY: KOBAL		CHECKED BY: KOBAL		PROPELLANT TRANSFER SYSTEM LAUNCH SLO PIPING PLAN LEVEL 4	
DRAWN BY: KOBAL		SCALE: 1/4" = 1'-0"		DATE: APR 7 1961	
PROJECT NO.: 1715-1		SHEET NO.: 1/4		TOTAL SHEETS: 182	
APPROVED BY: [Signature]		DATE: APR 7 1961		PROJECT NO.: 1715-1	
DRAWN BY: [Signature]		DATE: APR 7 1961		SHEET NO.: 182	



- NOTES:-
1. FOR CONT. OF ALL LINES GOING DOWN SEE SHT. PF-P/8
 2. FOR CONT. OF ALL LINES GOING UP SEE SHT. PF-P/6
 3. FOR GENERAL NOTES SEE SHT. PF-P/2
 4. FOR SYMBOL LEGEND SEE SHT. PF-P/2



REFERENCE DRAWING
N.I.C.

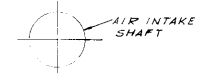
ALL WORK SHOWN ON THIS DRAWING IS N.I.C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

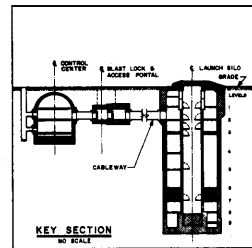
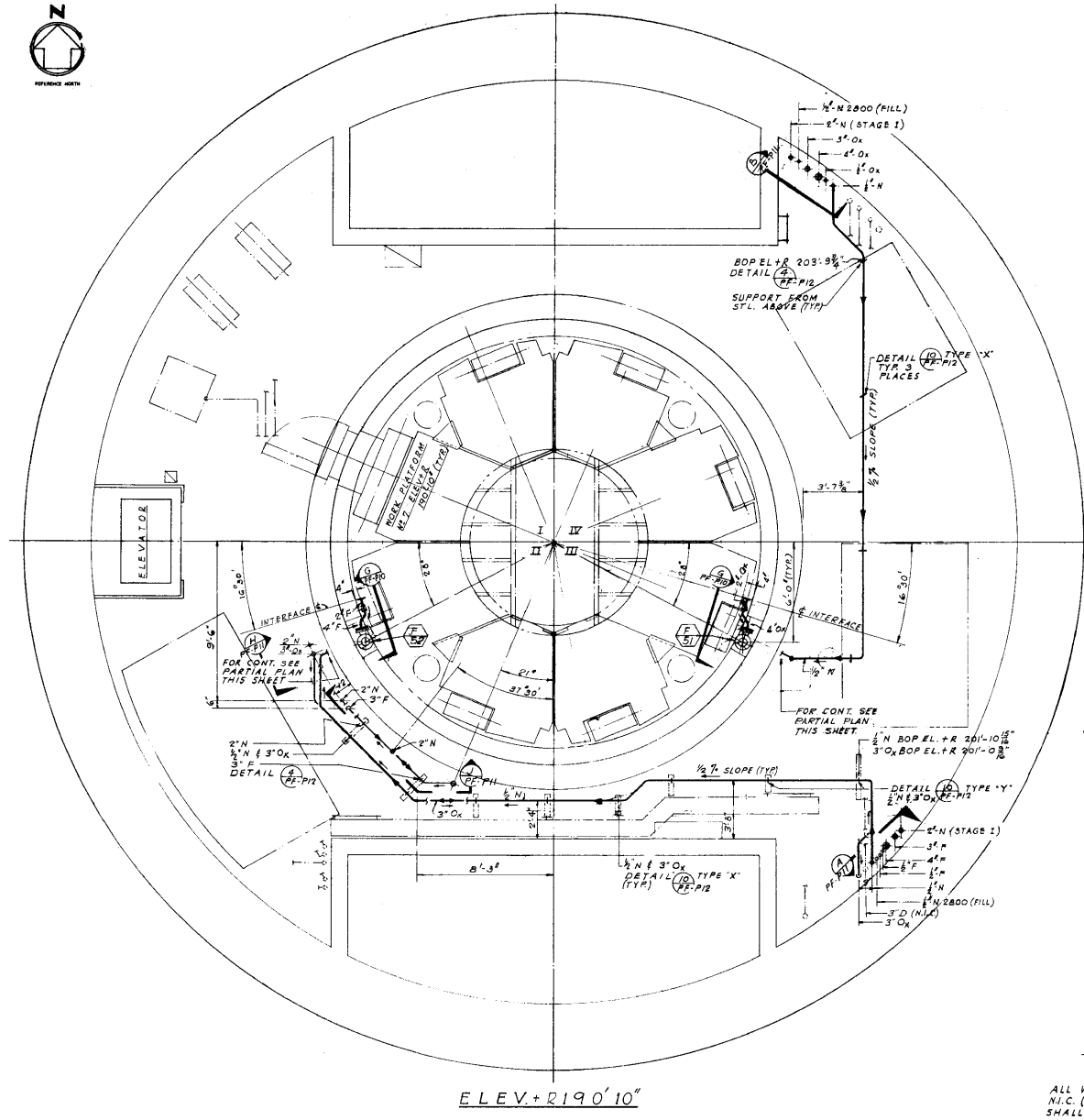
ELEV. +R 217' - 4"



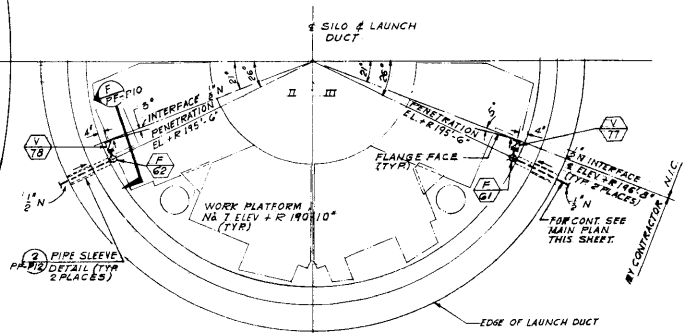
REVISION NO.	DATE	DESCRIPTION	AGENCY BY

THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 817 WEST BROADWAY STREET, LOS ANGELES 44, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (AROC) INDEPENDENCE, CALIFORNIA	
DESIGNED BY: R.S.S.A.L. DRAWN BY: R.S.S.A.L.	2-D SHEET NO. R-PF-P7	SM-68B TECHNICAL FACILITIES STANDARD PLANS	
CHECKED BY: [Signature] APPROVED BY: [Signature]	AS PER NO. 1715-1	PROPELLANT TRANSFER SYSTEM LAUNCH SILEO PIPING PLAN LEVEL 5	
DATE: APR 1 1961 SHEET NO.: 158 DRAWING NO.: 123/183	REVISION NO.: 1153 DATE: APR 7 1961	PROPELLATION NO.: 1715-1 SHEET NO.: 158 DRAWING NO.: 123/183	SHEET NO.: 183





- NOTES:-
1. FOR CONT. OF ALL LINES GOING DOWN SEE SHT. PF-P9
 2. FOR CONT. OF ALL LINES GOING UP SEE SHT. PF-P7
 3. FOR GENERAL NOTES SEE SHT. PF-P2
 4. FOR SYMBOL LEGEND SEE SHT. PF-P12



PARTIAL PLAN - ELEV. 190' 10"

SEAL

DATE

BY

FOR OFFICIAL USE ONLY

REVISION NO.	DATE	DESCRIPTION	AGENCY	BY

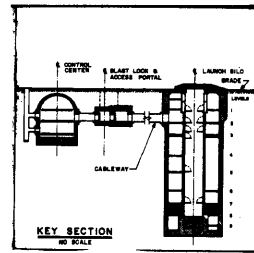
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 817 WEST OAKVIEW AVENUE, SUITE 110, PALMDALE, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE BALTIC MISSILE DIVISION (AMDT) ANDERWOOD, CALIFORNIA	
PROJECT NO. K03AL DRAWING NO. R-PF-P8 DATE 1715-1	5M-68B TECHNICAL FACILITIES STANDARD PLANS PROPELLANT TRANSFER SYSTEM LAUNCH SILO PIPING PLAN LEVEL 7		
DESIGNER: K03AL CHECKER: K03AL DATE: 1/75	ENGINEER: ENG 04-50-10-1-1-1 DATE: 1/75	DRAWING NO.: 1715-1 SHEET NO.: 123/184	TOTAL SHEETS: 184

REFERENCE DRAWING
N. I. C.

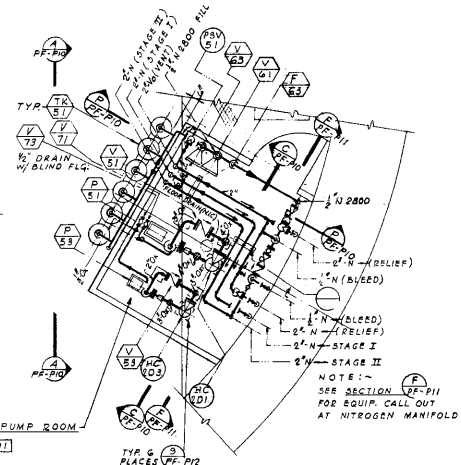
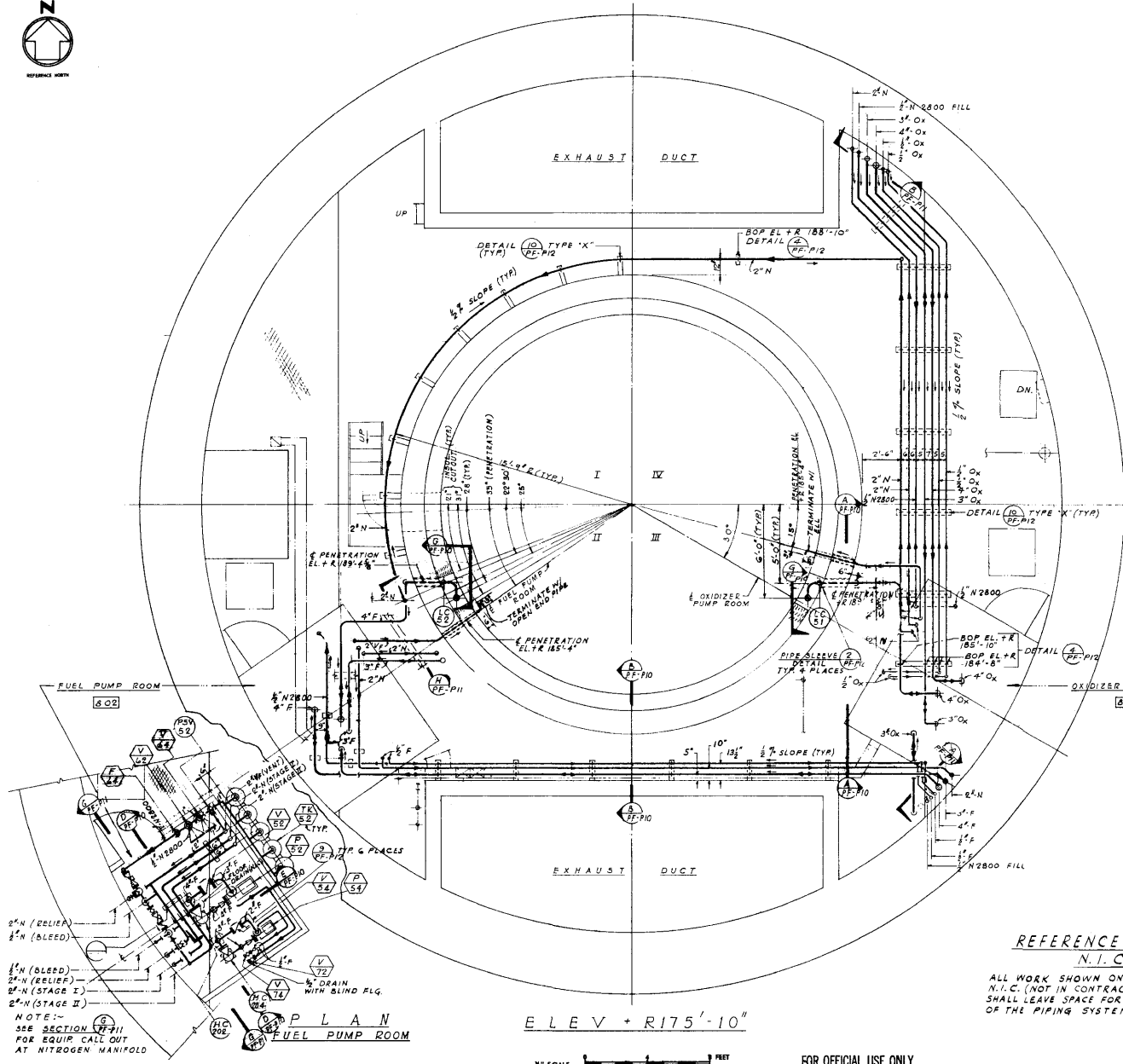
ALL WORK SHOWN ON THIS DRAWING IS N.I.C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.



FOR OFFICIAL USE ONLY



NOTE S:-
1. FOR CONT. OF ALL LINES GOING UP SEE SHT. PF-P8
2. FOR GENERAL NOTES SEE SHT. PF-P2
3. FOR SYMBOL LEGEND SEE SHT. PF-P12



PLAN
OXIDIZER PUMP ROOM

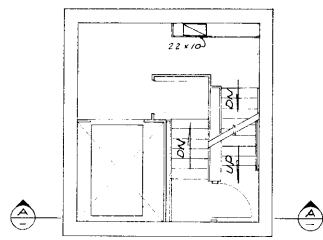
DATE OF PAPER: 1981
DRAWN BY: KOBAL
CHECKED BY: [Signature]
DATE: 11/25/81

REFERENCE DRAWING
N.I.C.

ALL WORK SHOWN ON THIS CONTRACT IS N.I.C. (NOT IN CONTRACT). THE CONTRACTOR SHALL LEAVE SPACE FOR THE INSTALLATION OF THE PIPING SYSTEM SHOWN.

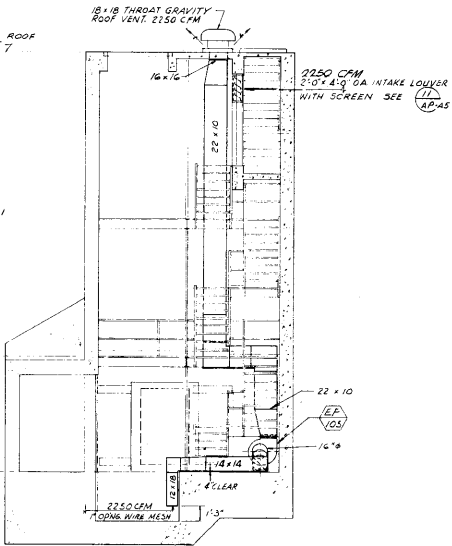
REVISION NO.	DATE	DESCRIPTION	AGENCY	BY

THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 611 WEST HYDE PARK STREET LOS ANGELES 12, CALIFORNIA	DEPARTMENT OF THE AIR FORCE AIR FORCE BALLETIC MISSILE DIVISION (AFBCD) INDUWOOD, CALIFORNIA
DESIGNED BY: KOBAL DRAWN BY: KOBAL CHECKED BY: [Signature] DATE: 11/25/81	AS SHEET NO.: R-PF-P9 AS JOB NO.: 1715-1 DATE: 1/25/81
SM-68B TECHNICAL FACILITIES STANDARD PLANS	
PROPELLANT TRANSFER SYSTEM LAUNCH SLO PIPING PLAN LEVEL 8	
DATE: APR 7 1982 DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: 123/185	PRODUCTION NO.: 123/185-42 SCALE: AS NOTED SERIES: [Signature] NO.: 185

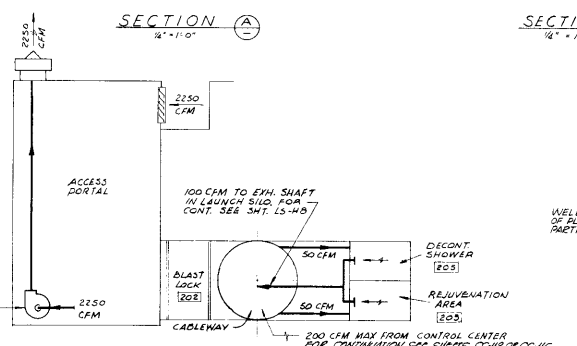


ACCESS PORTAL PLATFORM NO 1 PLAN
1/4" = 1'-0"

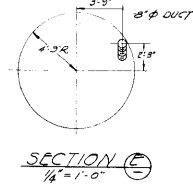
TOP OF CONC. ROOF
8' HIGH POINT 7



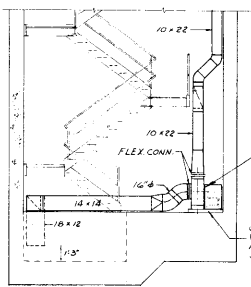
SECTION A-A
1/4" = 1'-0"



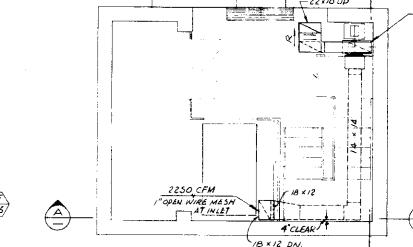
ACCESS PORTAL & DECONTAMINATION AREA FLOW & CONTROL DIAGRAM
NO SCALE



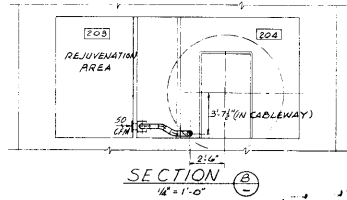
SECTION E-E
1/4" = 1'-0"



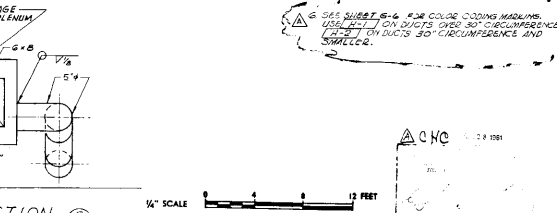
SECTION B-B
1/4" = 1'-0"



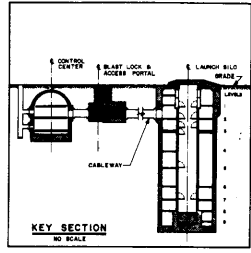
BLAST LOCK STRUCTURE PLAN
1/4" = 1'-0"



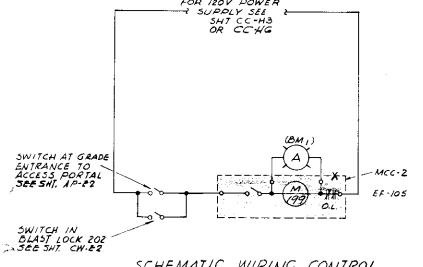
SECTION C-C
1/4" = 1'-0"



SECTION D-D
1/4" = 1'-0"



KEY SECTION
NO SCALE



SCHEMATIC WIRING CONTROL DIAGRAM
NO SCALE

- GENERAL NOTES**
1. FOR LEGEND SEE SHEETS G-3, G-4, E-3, E-4.
 2. SOME EQUIPMENT SCHEDULES SEE SHEETS G-2/H & E-5/S.
 3. ALL ITEMS INDICATED AS (BM) SHALL BE MOUNTED ON THE 114V CONTROL BOARD LOCATED IN THE CONTROL CENTER (ALL N/C).
 4. ALL ELECTRICAL ITEMS DASHED OR ENCLOSED BY DASHED LINES SHALL BE PROVIDED & INSTALLED UNDER THE "ELEC. WORK, INTERIOR" OF THE SPEC.
 5. AUTOMATIC CONTROL ITEMS MARKED WITH DOUBLE ASTERISK (**) WILL BE O.F.B. UNLESS OTHERWISE SPECIFICALLY NOTED. ALL OTHER AUTO. CONTROL ITEMS INCLUDING TEMP. & PRESS. INDICATORS, PNEUMATIC & ELECTRIC INTERLOCKS SHALL BE W.I.C.

REVISION NO.	DATE	DESCRIPTION	BY	CHKD.
1	12/28/54	ISSUED FOR CONSTRUCTION	J. PARSONS	

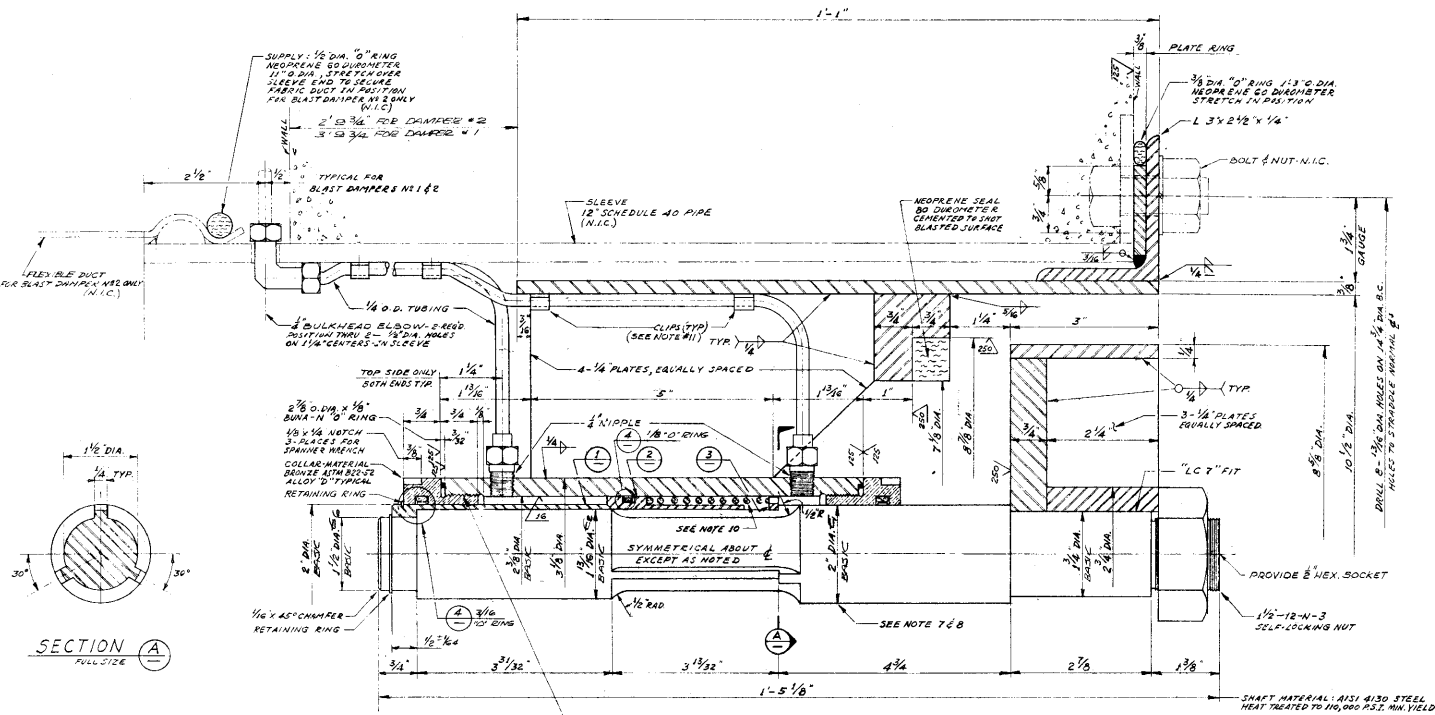
THE RALPH M. PARSONS COMPANY
 ARCHITECT - ENGINEER
 417 WEST BEVERLY STREET, LOS ANGELES 21, CALIFORNIA

DEPARTMENT OF THE AIR FORCE
 AIR FORCE BALLISTIC MISSILE DIVISION (AFBIC)
 HIGHTWOOD, CALIFORNIA

SM-68B TECHNICAL FACILITIES
STANDARD PLANS
ACCESS PORTAL
PLANS
SECTIONS & FLOW & CONTROL DIAGRAMS

DESIGNED BY: J.M.P. S-AP-HI
 DRAWN BY: A.M.C. S-AP-HI
 CHECKED BY: J.M.P. S-AP-HI
 DATE: 12/17/54
 SCALE: 1/4" = 1'-0"
 SHEETS: 11

MAJOR USAF PROJECT NO. 16-57-1-1
 DATE: 12/17/54
 BY: J.M.P.
 CHECKED BY: A.M.C.

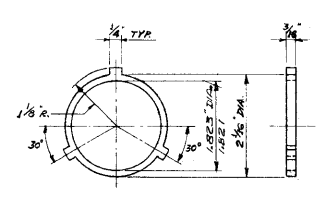
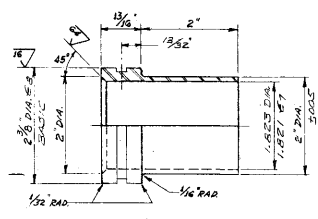
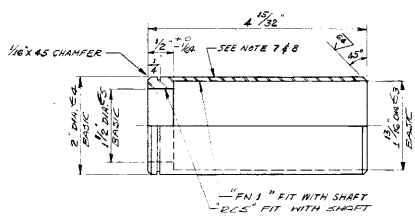
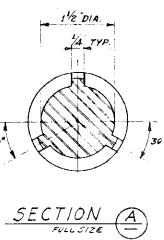


GENERAL NOTES

1. ALL MATERIAL SHALL BE ASTM-A373 STRUCTURAL GRADE CARBON STEEL, OR EQUAL, UNLESS OTHERWISE NOTED.
2. WELDING SHALL CONFORM TO THE STANDARDS AND RECOMMENDATIONS OF THE AMERICAN WELDING SOCIETY.
3. ALL WELDMENTS SHALL BE STRESS RELIEVED BEFORE MACHINING.
4. REMOVE ALL BURRS AND SHARP CORNERS.
5. DIMENSIONAL TOLERANCES SHALL BE ± 1/32 UNLESS OTHERWISE NOTED.
6. FABRICATOR SHALL FINISH PARTS WITH NECESSARY TOLERANCES TO CONFORM WITH A.S.A. S4.1-1955 STANDARDS.
7. ALL SLIDING SURFACES, AS INDICATED, SHALL BE HARD-CHROME PLATED .0001" THICK.
8. CLASS FIT & SURFACE FINISH TO BE AS RECOMMENDED BY MANUFACTURER OF TYPICAL SIZE DIMS. DIAMETRICAL CLEARANCE ON DETAIL ③ .002" MIN.
9. PROVIDE ALL TUBING AND FITTINGS FOR 2000 P.S.I. PRESSURE.
10. SPRING SPECIFICATION:
 - OUTSIDE DIAMETER — 2 5/16 ± 1/32
 - WIRE DIAMETER — 1/8"
 - NUMBER OF TURNS — 14 TOTAL - 2 DEAD
 - FREE LENGTH — 1 1/2"
 - WORKING LOAD — 225 LBS @ 2 1/2" LONG ± 1/2
 - ENDS SQUARED AND GROUND.
11. CURP TO CONSIST OF 10 GAGE STEEL, ATTACHED BY #10-DIA. N.C. SLOTTED ROUND HEAD MACHINING SCREWS WITH SHANK PROOF LOCK WASHERS. LOCATE ON 1/2" MIN. CENTERS.
12. #2 DIA. TO BE CONCENTRIC TO #3 DIA. WITHIN .0005" T.I.E.
13. #3 DIA. TO BE CONCENTRIC TO #4 DIA. WITHIN .0005" T.I.E.
14. #4 DIA. TO BE CONCENTRIC TO #5 DIA. WITHIN .001" T.I.E.
15. #5 DIA. TO BE CONCENTRIC TO #6 DIA. WITHIN .001" T.I.E.
16. #7 DIA. TO BE CONCENTRIC TO #8 DIA. WITHIN .0005" T.I.E.
17. DIAMETERS DESIGNATED AS BASE HAVE NO TOLERANCE OTHER THAN THAT INDICATED BY CLASS OF FIT.

BLAST DAMPER-SECTION
FULL SIZE

THREAD 2 1/2-12-11-2
PITCH DIA. TO BE CONCENTRIC TO RESPECTIVE BORES WITHIN .001 T.I.E.



DETAIL 1
FULL SIZE

FINISH $\sqrt{\text{FE}}$ EXCEPT AS NOTED
MATERIAL: AISI C1040
HEAT TREATED TO 70,000 P.S.I. MIN. YIELD

DETAIL 2
FULL SIZE

FINISH $\sqrt{\text{FE}}$ EXCEPT AS NOTED
MATERIAL: HOT ROLLED ROUND C1020

DETAIL 3
FULL SIZE

FINISH $\sqrt{\text{FE}}$ EXCEPT AS NOTED
MATERIAL: HOT ROLLED ROUND C1020



DETAIL 4

GROOVE DIMENSIONS TOLERANCES AND FINISHES TO BE AS RECOMMENDED BY MANUFACTURER OF TEF-ON GAGE RING

FOR INSTALLATION INFORMATION ONLY

ASSEMBLIES ON THIS SHEET		G.F.E.	
NO.	REVISED INFORMATION NOTE	DATE	APPROVED BY
A			
B			
C			
D			
E			
F			
G			
H			
I			
J			
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X			
Y			
Z			

THE RALPH M. PARSONS COMPANY
ARCHITECT - ENGINEER
817 WEST SEVENTH STREET, LOS ANGELES 12, CALIFORNIA

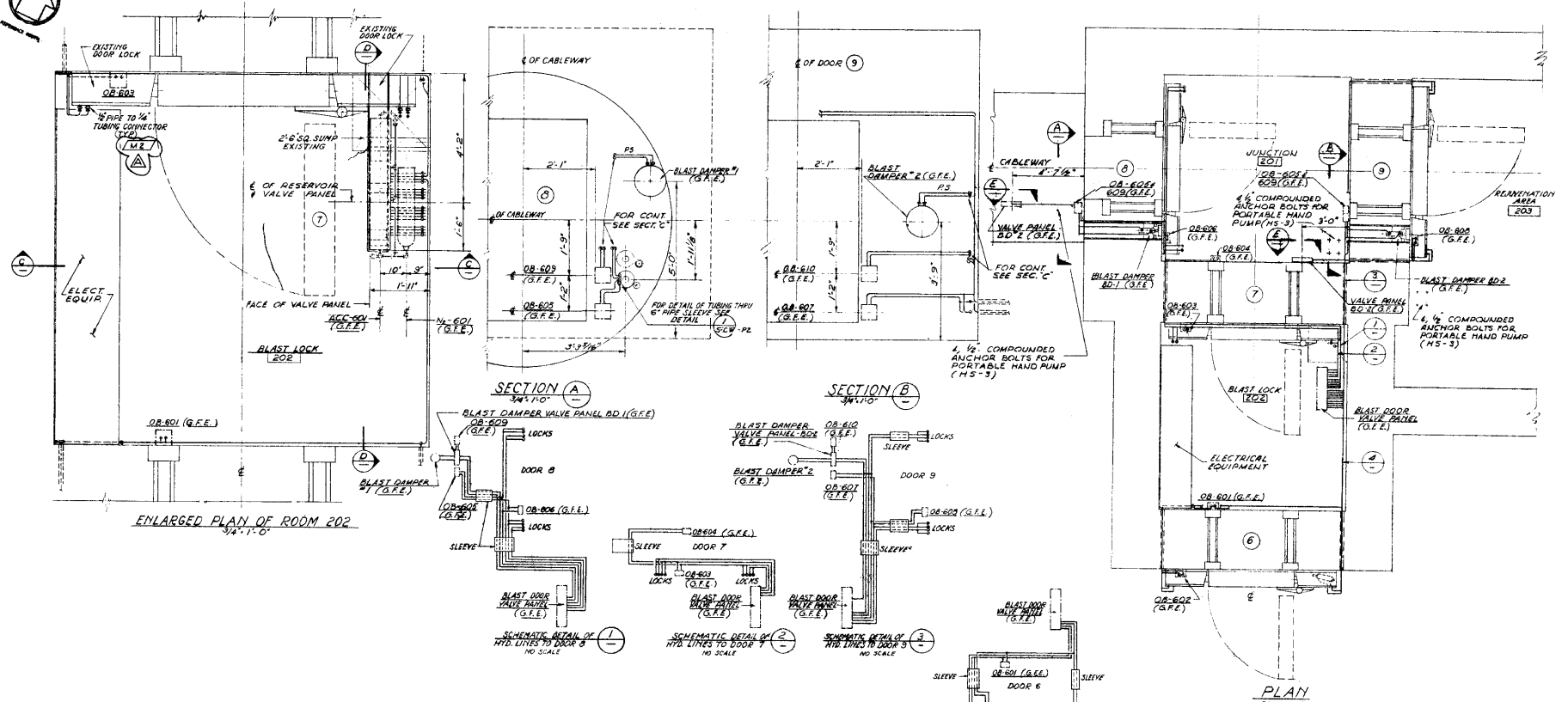
DEPARTMENT OF THE AIR FORCE
AIR FORCE BALLISTIC MISSILE DIVISION (AFBC)
INGLEWOOD, CALIFORNIA

SM-68B TECHNICAL FACILITIES
STANDARD PLANS
BLAST LOCK STRUCTURE
BLAST DAMPER
SECTIONS & DETAILS

DESIGNED BY: **W. E. EPLER**
CHECKED BY: **W. E. EPLER**
DATE: **11/15/61**

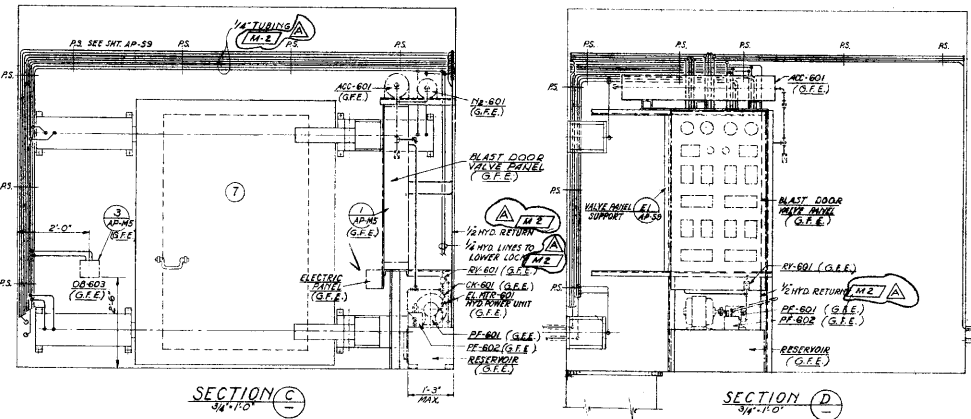
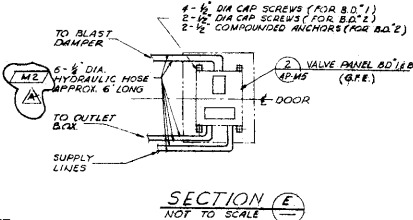
APPROVED BY: **W. E. EPLER**
DATE: **11/15/61**

REVISIONS: **1/15/61**
2/15/61
3/15/61
4/15/61
5/15/61
6/15/61
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12/15/61

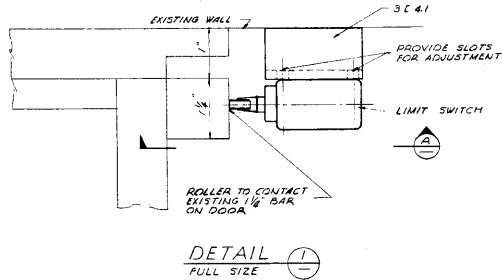


GENERAL NOTES

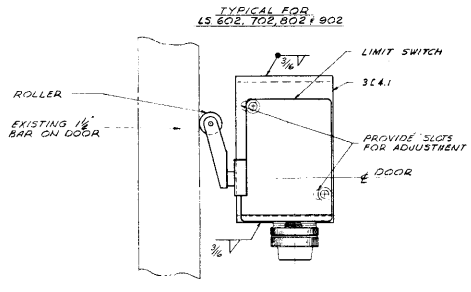
- FOR HYDRAULIC FLOW DIRECTION, VALVE PANELS, PORTABLE HAND PUMP ASSEMBLY, OUTLET BOWLS AND GENERAL NOTES SEE AP-MS.
- SEE SPECIFICATIONS AND G-6 FOR COLOR CODE MARKINGS



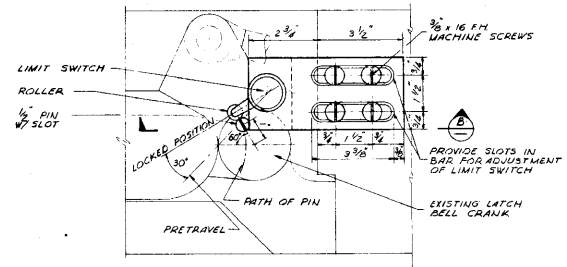
REVISION NO.	DATE	DESCRIPTION	BY	CHKD
1	4-28-54	ADD COLOR CODE MARKING & NOTE #2	AP	MS
<p>THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 1801 BAYVIEW DRIVE LOS ANGELES 12, CALIFORNIA</p>				
<p>DEPARTMENT OF THE AIR FORCE AIR FORCE QUALITY MODEL DIVISION (AMDC) HUNTSVILLE, CALIFORNIA</p>				
<p>844-558 TECHNICAL FACILITIES STANDARD PLANS</p>			<p>BLAST LOCK STRUCTURE BLAST DOOR HYDRAULIC EQUIPMENT & PIPING</p>	
DATE	BY	APPROVED	<p>1542 877 1991</p> <p>1715-1C</p>	
APR 21 1951	S-AP-M7	AP	<p>1715-1C</p>	
<p>SCALE: 1" = 1'-0"</p>				
<p>SCALE: 1" = 1'-0"</p>				



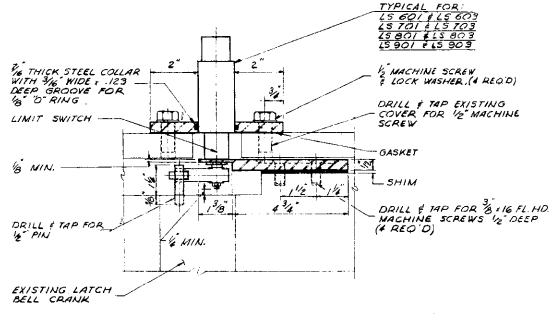
DETAIL 1
FULL SIZE



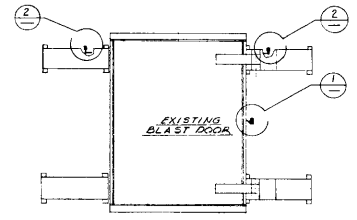
SECTION A
FULL SIZE



DETAIL 2
6" - 1" - 0"



SECTION B
6" - 1" - 0"

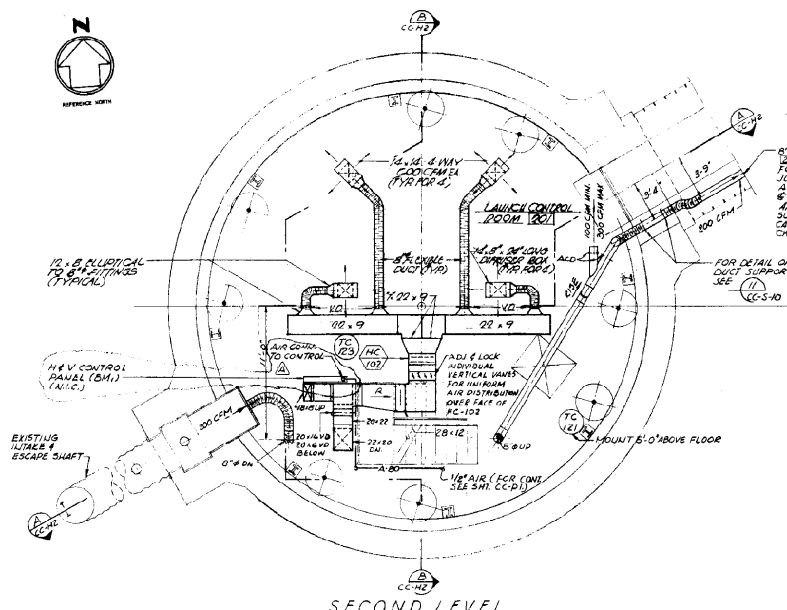


GENERAL NOTES

- MECHANICAL CHARACTERISTICS:
LS 601, 603, 701, 703, 801, 802, 901, 902
OPERATING TORQUE 12.25 IN LBS
RELEASE TORQUE 6 IN LBS MIN.
FULL OVERTRAVEL FORCE 40 IN LBS MAX.
PRETRAVEL 15"
TOTAL TRAVEL 45"
DIFFERENTIAL TRAVEL 10" MAX
- ELECTRICAL CHARACTERISTICS
LS 602, 702, 802, 902
CONTACT ARRANGEMENT: 4 CIRCUIT DOUBLE
BREAK (2 NORMAL OPEN / 2 NORMAL CLOSED)
CONTACT RATING:
12 AMPS RESISTIVE @ 28 V.D.C.
10 AMPS INDUCTIVE @ 28 V.D.C.
3 AMPS 5 LAMP LOAD @ 28 V.D.C.
ENCLOSURE
MOISTURE & DUST PROOF WITH CONDUIT
HUB & CLAMP FOR CABLE ENTRANCE
LS 601, 603, 701, 703, 801, 803, 901, 903
CONTACT ARRANGEMENT: 4 CIRCUIT DOUBLE
BREAK (2 NORMAL OPEN / 2 NORMAL CLOSED)
CONTACT RATING:
12 AMPS RESISTIVE @ 28 V.D.C.
10 AMPS INDUCTIVE @ 28 V.D.C.
CABLE CONNECTION: RECEPTACLE - MS-310A-20-7P
SHEET 5 OF 53
- FOR ELECTRICAL SCHEMATIC DIAGRAM SEE SHEET 5 OF 53
- FOR ELECTRICAL CONNECTIONS SEE SHEET CW-02
- LIMIT SWITCHES TO WITHSTAND 50 G LOADING

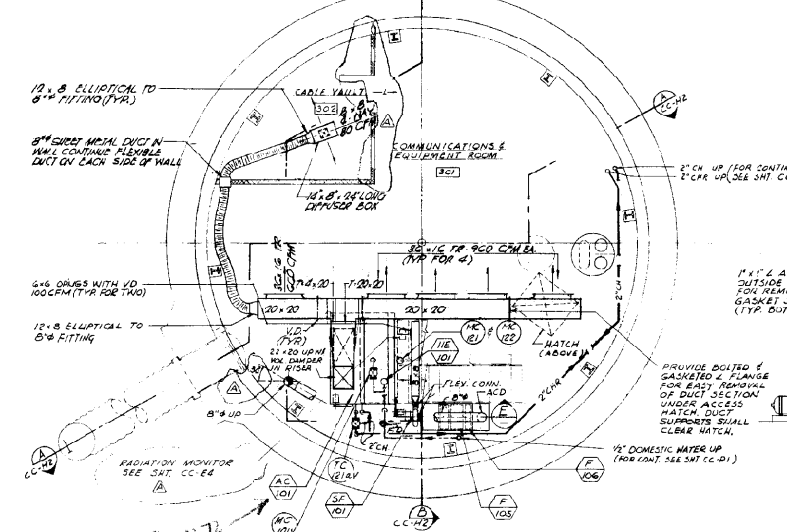
SEC 10060
11-20-60 Rev. 7/25 for Dr S.F.L.

REVISION NO.	DATE	DESCRIPTION	AGENCY	BY
1	11-20-60	Rev. 7/25 for Dr S.F.L.		
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 817 WEST BERRY AVENUE, LOS ANGELES 15, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE MAINTENANCE DIVISION (AMDC) INGLEWOOD, CALIFORNIA		
DESIGNED BY <i>CUBBIE</i> DRAWN BY <i>LITTON</i> CHECKED BY <i>W. H. HARRIS</i>	A-E SHEET NO. S-AP-M9 A-E JOB NO. 1715-1C	SM-688 TECHNICAL FACILITIES STANDARD PLANS BLAST LOCK STRUCTURE BLAST DOOR LIMIT SWITCHES		
AUTHORITY <i>W. H. HARRIS</i> DATE 11-20-60 DRAWN BY <i>W. H. HARRIS</i>	PROJECT NO. 11-20-60 SHEET NO. 11-20-60	INFORMATION NO. ENG-68-11-1 DATE 11-2-60 DRAWN BY 11-2-60 CHECKED BY 11-2-60 APPROVED BY 11-2-60 CEBMCO SERIES		



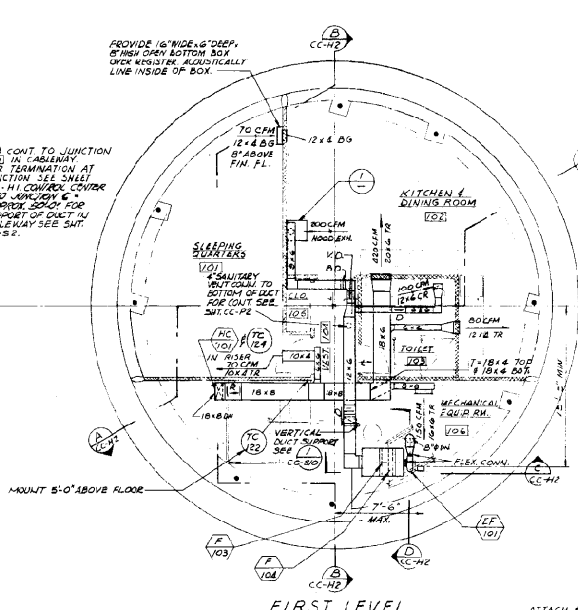
SECOND LEVEL

1/4" = 1'-0"
 62.25'-0"



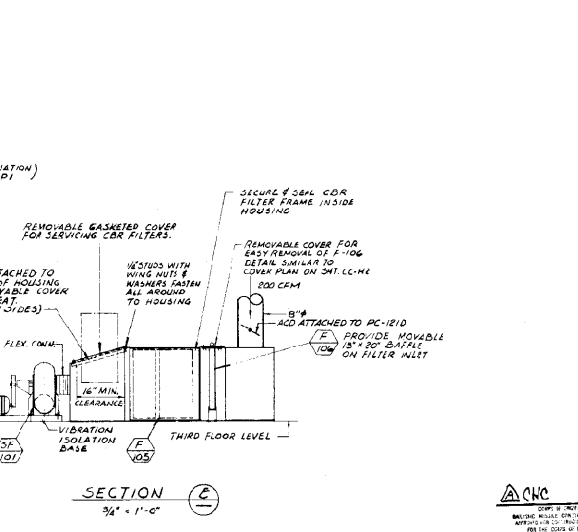
THIRD LEVEL

1/4" = 1'-0"
 62.25'-0"



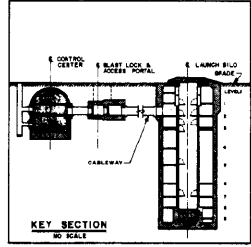
FIRST LEVEL

1/4" = 1'-0"
 62.25'-0"



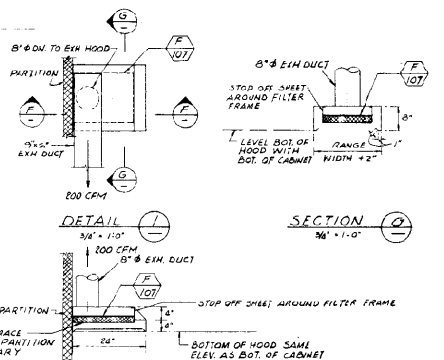
SECTION C-C

3/4" = 1'-0"



KEY SECTION

NO SCALE



DETAIL

3/8" = 1'-0"

SECTION F-F

3/4" = 1'-0"

NOTE: FOR LOCATION OF HOOD SEE DET. CC-A3

GENERAL NOTES

1. FOR LEGEND SEE SHEETS G-0, G-1, G-2, G-3, G-4, G-5, G-6, G-7, G-8, G-9, G-10, G-11, G-12, G-13, G-14, G-15, G-16, G-17, G-18, G-19, G-20, G-21, G-22, G-23, G-24, G-25, G-26, G-27, G-28, G-29, G-30, G-31, G-32, G-33, G-34, G-35, G-36, G-37, G-38, G-39, G-40, G-41, G-42, G-43, G-44, G-45, G-46, G-47, G-48, G-49, G-50, G-51, G-52, G-53, G-54, G-55, G-56, G-57, G-58, G-59, G-60, G-61, G-62, G-63, G-64, G-65, G-66, G-67, G-68, G-69, G-70, G-71, G-72, G-73, G-74, G-75, G-76, G-77, G-78, G-79, G-80, G-81, G-82, G-83, G-84, G-85, G-86, G-87, G-88, G-89, G-90, G-91, G-92, G-93, G-94, G-95, G-96, G-97, G-98, G-99, G-100, G-101, G-102, G-103, G-104, G-105, G-106, G-107, G-108, G-109, G-110, G-111, G-112, G-113, G-114, G-115, G-116, G-117, G-118, G-119, G-120, G-121, G-122, G-123, G-124, G-125, G-126, G-127, G-128, G-129, G-130, G-131, G-132, G-133, G-134, G-135, G-136, G-137, G-138, G-139, G-140, G-141, G-142, G-143, G-144, G-145, G-146, G-147, G-148, G-149, G-150, G-151, G-152, G-153, G-154, G-155, G-156, G-157, G-158, G-159, G-160, G-161, G-162, G-163, G-164, G-165, G-166, G-167, G-168, G-169, G-170, G-171, G-172, G-173, G-174, G-175, G-176, G-177, G-178, G-179, G-180, G-181, G-182, G-183, G-184, G-185, G-186, G-187, G-188, G-189, G-190, G-191, G-192, G-193, G-194, G-195, G-196, G-197, G-198, G-199, G-200, G-201, G-202, G-203, G-204, G-205, G-206, G-207, G-208, G-209, G-210, G-211, G-212, G-213, G-214, G-215, G-216, G-217, G-218, G-219, G-220, G-221, G-222, G-223, G-224, G-225, G-226, G-227, G-228, G-229, G-230, G-231, G-232, G-233, G-234, G-235, G-236, G-237, G-238, G-239, G-240, G-241, G-242, G-243, G-244, G-245, G-246, G-247, G-248, G-249, G-250, G-251, G-252, G-253, G-254, G-255, G-256, G-257, G-258, G-259, G-260, G-261, G-262, G-263, G-264, G-265, G-266, G-267, G-268, G-269, G-270, G-271, G-272, G-273, G-274, G-275, G-276, G-277, G-278, G-279, G-280, G-281, G-282, G-283, G-284, G-285, G-286, G-287, G-288, G-289, G-290, G-291, G-292, G-293, G-294, G-295, G-296, G-297, 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G-584, G-585, G-586, G-587, G-588, G-589, G-590, G-591, G-592, G-593, G-594, G-595, G-596, G-597, G-598, G-599, G-600, G-601, G-602, G-603, G-604, G-605, G-606, G-607, G-608, G-609, G-610, G-611, G-612, G-613, G-614, G-615, G-616, G-617, G-618, G-619, G-620, G-621, G-622, G-623, G-624, G-625, G-626, G-627, G-628, G-629, G-630, G-631, G-632, G-633, G-634, G-635, G-636, G-637, G-638, G-639, G-640, G-641, G-642, G-643, G-644, G-645, G-646, G-647, G-648, G-649, G-650, G-651, G-652, G-653, G-654, G-655, G-656, G-657, G-658, G-659, G-660, G-661, G-662, G-663, G-664, G-665, G-666, G-667, G-668, G-669, G-670, G-671, G-672, G-673, G-674, G-675, G-676, G-677, G-678, G-679, G-680, G-681, G-682, G-683, G-684, G-685, G-686, G-687, G-688, G-689, G-690, G-691, G-692, G-693, G-694, G-695, G-696, G-697, G-698, G-699, G-700, G-701, G-702, G-703, G-704, G-705, G-706, G-707, G-708, G-709, G-710, G-711, G-712, G-713, G-714, G-715, G-716, G-717, G-718, G-719, G-720, G-721, G-722, G-723, G-724, G-725, G-726, G-727, G-728, G-729, G-730, G-731, G-732, G-733, G-734, G-735, G-736, G-737, G-738, G-739, G-740, G-741, G-742, G-743, G-744, G-745, G-746, G-747, G-748, G-749, G-750, G-751, G-752, G-753, G-754, G-755, G-756, G-757, G-758, G-759, G-760, G-761, G-762, G-763, G-764, G-765, G-766, G-767, G-768, G-769, G-770, G-771, G-772, G-773, G-774, G-775, G-776, G-777, G-778, G-779, G-780, G-781, G-782, G-783, G-784, G-785, G-786, G-787, G-788, G-789, G-790, G-791, G-792, G-793, G-794, G-795, G-796, G-797, G-798, G-799, G-800, G-801, G-802, G-803, G-804, G-805, G-806, G-807, G-808, G-809, G-810, G-811, G-812, G-813, G-814, G-815, G-816, G-817, G-818, G-819, G-820, G-821, G-822, G-823, G-824, G-825, G-826, G-827, G-828, G-829, G-830, G-831, G-832, G-833, G-834, G-835, G-836, G-837, G-838, G-839, G-840, G-841, G-842, G-843, G-844, G-845, G-846, G-847, G-848, G-849, G-850, G-851, G-852, G-853, G-854, G-855, G-856, G-857, G-858, G-859, G-860, G-861, G-862, G-863, G-864, G-865, G-866, G-867, G-868, G-869, G-870, G-871, G-872, G-873, G-874, G-875, G-876, G-877, G-878, G-879, G-880, G-881, G-882, G-883, G-884, G-885, G-886, G-887, G-888, G-889, G-890, G-891, G-892, G-893, G-894, G-895, G-896, G-897, G-898, G-899, G-900, G-901, G-902, G-903, G-904, G-905, G-906, G-907, G-908, G-909, G-910, G-911, G-912, G-913, G-914, G-915, G-916, G-917, G-918, G-919, G-920, G-921, G-922, G-923, G-924, G-925, G-926, G-927, G-928, G-929, G-930, G-931, G-932, G-933, G-934, G-935, G-936, G-937, G-938, G-939, G-940, G-941, G-942, G-943, G-944, G-945, G-946, G-947, G-948, G-949, G-950, G-951, G-952, G-953, G-954, G-955, G-956, G-957, G-958, G-959, G-960, G-961, G-962, G-963, G-964, G-965, G-966, G-967, G-968, G-969, G-970, G-971, G-972, G-973, G-974, G-975, G-976, G-977, G-978, G-979, G-980, G-981, G-982, G-983, G-984, G-985, G-986, G-987, G-988, G-989, G-990, G-991, G-992, G-993, G-994, G-995, G-996, G-997, G-998, G-999, G-1000.

REVISION NO.	DATE	DESCRIPTION	BY	CHKD
1	4-28-61	ADDED RADIATION MONITOR	AFB/MD	
2		ADDED RADIATION MONITOR	AFB/MD	
3		ADDED RADIATION MONITOR	AFB/MD	
4		ADDED RADIATION MONITOR	AFB/MD	

THE RALPH W. PARSONS COMPANY
 ARCHITECT - ENGINEER
 515 WEST BENTLEY STREET, LINCOLN 4, NEBRASKA

DEPARTMENT OF THE AIR FORCE
 AIR FORCE BALLISTIC MISSILE DIVISION (ARDC)
 HUNTSVILLE, ALABAMA

SM-688 TECHNICAL FACILITIES STANDARD PLANS
CONTROL CENTER PLANS, SECTIONS & DETAILS

PROJECT NO. S-CC-111
 SHEET NO. 1715-16
 DATE: APR 1961
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

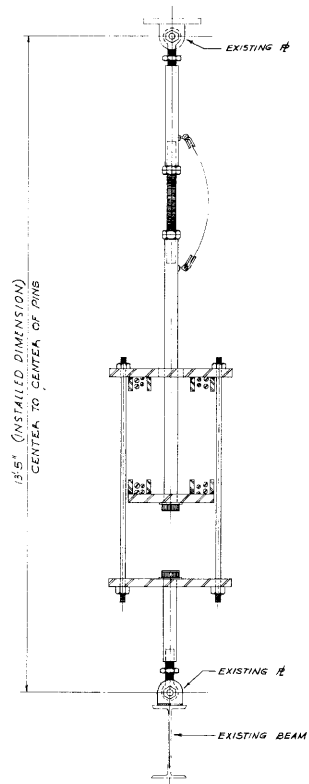
SCALE: 1/4" = 1'-0"

123/144

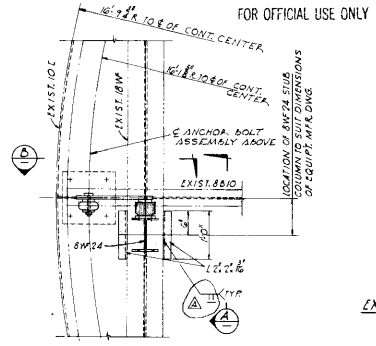
GENERAL NOTES

1. THE SUSPENSION HANGERS & VERTICAL DAMPERS ARE GOVERNMENT FURNISHED EQUIPMENT (G.F.E.) AND INSTALLED BY THE CONTRACTOR.
2. THE SUSPENSION HANGERS WILL BE FURNISHED BY THE GOVERNMENT AFTER THE CONTRACTING OFFICER HAS VERIFIED THE TOTAL ACTUAL WEIGHT OF CONTROL CENTER CASE AND CAGE MOUNTED EQUIPMENT.
3. THE CONTRACTOR SHALL CHECK EXISTING TEMPORARY SUPPORTS OF THE CAGE BEFORE INSTALLING FLOOR PLATES AND MOUNTING EQUIPMENT INSIDE THE CONTROL CENTER. THE TOTAL WEIGHT OF CAGE AND MOUNTED EQUIPMENT IS APPROXIMATELY 30000LBS. THE CONTRACTOR SHALL REINFORCE EXISTING TEMPORARY SUPPORTS AS REQUIRED TO SUSTAIN THE ABOVE TOTAL LOAD.
4. AFTER INSTALLATION OF THE SUSPENSION HANGERS, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY CAGE SUPPORTS FROM THE CONTROL CENTER.
5. THE CONTRACTOR SHALL FINALLY LEVEL AND POSITION THE CAGE TO THE PROPER ELEVATION INDICATED ON THE DRAWINGS.
6. THE VERTICAL DAMPERS SHALL NOT BE INSTALLED UNTIL ALL MOUNTED EQUIPMENT AND ALL OTHER DEAD LOADS OF THE CAGE ARE IN PLACE, AFTER REMOVING TEMPORARY CAGE SUPPORTS AND POSITIONING THE CAGE TO THE PROPER ELEVATION INDICATED ON THE DRAWINGS. THE VERTICAL DAMPERS SHALL THEN BE INSTALLED WITH THE LEVER IN A HORIZONTAL NEUTRAL POSITION AS SHOWN.

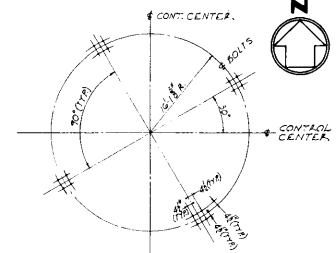
FOR OFFICIAL USE ONLY



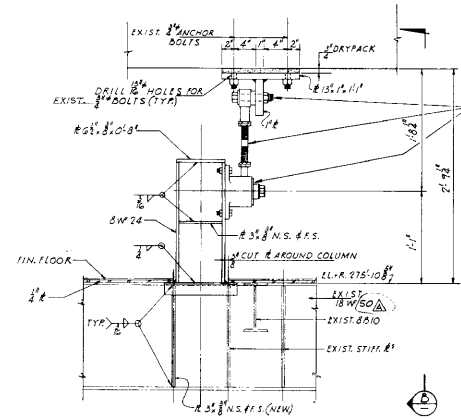
SUSPENSION HANGER (G.F.E.) REF. CC-5B



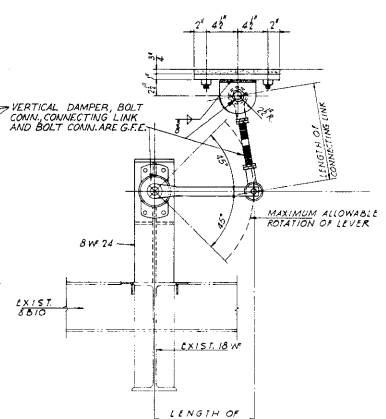
PLAN 1/2" = 1'-0"



ROOF PLAN SHOWING LOCATION OF EXIST. ANCHOR BOLTS FOR VERTICAL DAMPERS 1/2" = 1'-0"

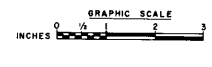


SECTION A 1/2" = 1'-0"



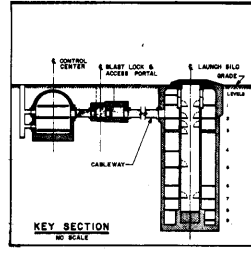
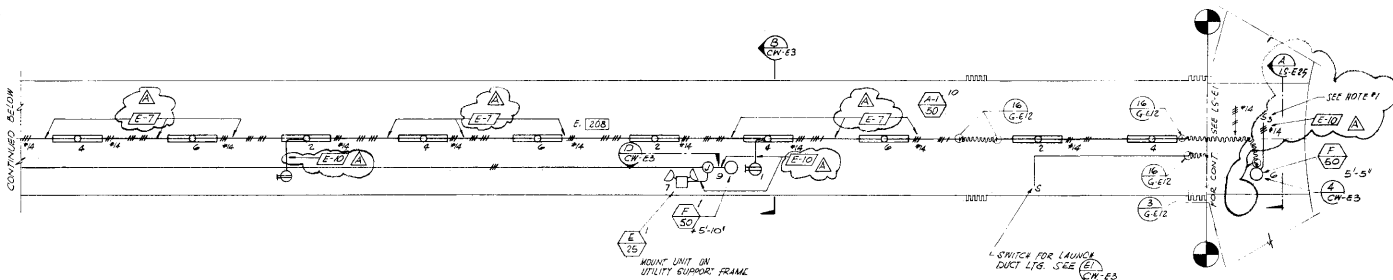
SECTION B 1/2" = 1'-0"

VERTICAL DAMPER DETAIL REF. CC-5B



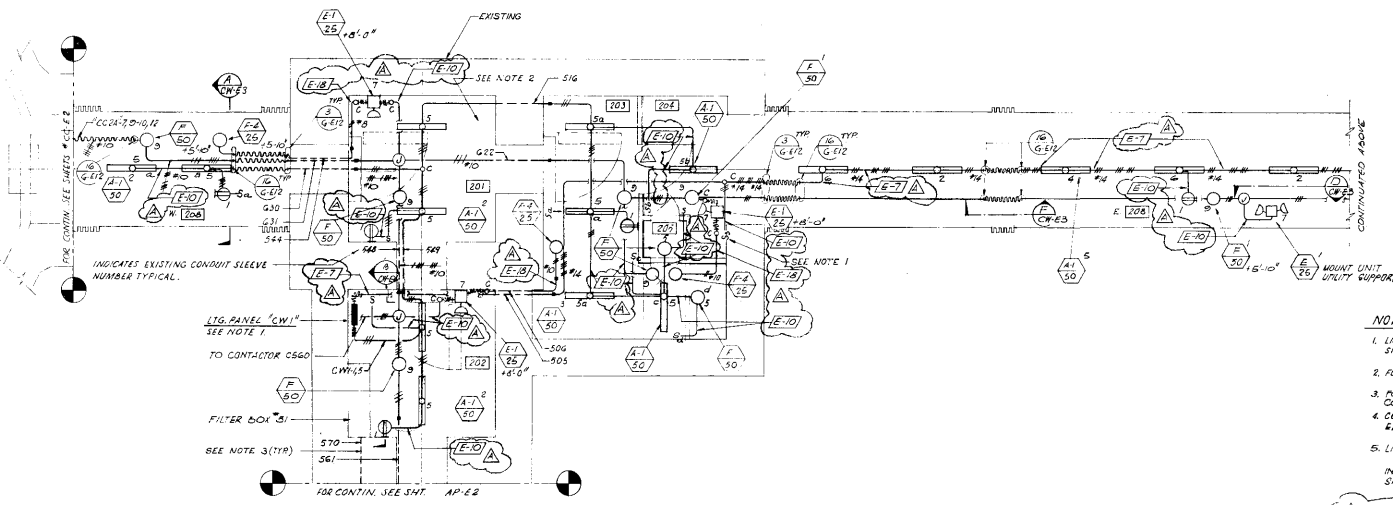
CHIC 8/11/10
 DATE OF SUBMITTAL
 PREPARED BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

REVISION NO.	DATE	DESCRIPTION	AGENCY	BY
1	8-25-64	ADD NOTE G, REIN. #1'S W/ WELD GROUND SMOOTH	AFM	MD
THE RALPH M. PARSONS COMPANY		DEPARTMENT OF THE AIR FORCE		
ARCHITECT - ENGINEER		AIR FORCE BALLISTIC MISSILE SYSTEM (ABCS)		
617 WEST SEVENTH STREET LOS ANGELES 12, CALIFORNIA		INGWOOD, CALIFORNIA		
DESIGNED BY: SLAGGOLD	A & S SHEET NO. S-CC-57	SM-68B TECHNICAL FACILITIES STANDARD PLANS		
DRAWN BY: M. J. WELLS	AIR FOR. NO. 1715-1C	CONTROL CENTER SUSPENSION HANGERS AND VERTICAL DAMPERS		
CHECKED BY: [Signature]	DATE: 8/11/10	DATE: 8/11/10	SCALE: 1/2" = 1'-0"	SHEET: 138



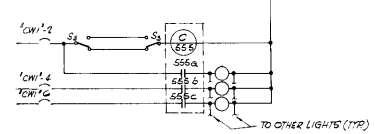
SCHEDULE - LIGHTING PANEL 'CW1'

LINE NO.	QTY	TYPE LOAD & LOCATION	WATTS	VA	AMPS
1	20	7 1/2" FGR. 250. 250. W. 1000. 1000	4000	12.4	1.4
2	1	5 1/2" FGR. 250. CABLEWAY/PORTAL	250		
3	1	1 1/2" W. 25. 25. 10	800		
4	1	5 1/2" FGR. 250. CABLEWAY	250		
5	1	5 1/2" FGR. 250. CABLEWAY	250		
6	1	5 1/2" FGR. 250. CABLEWAY	250		
7	20	1 1/2" W. 25. 25. 100	1600		
8	10	3 1/2" FGR. 250. ACCESS PORTAL	300		
9	20	1 1/2" W. 25. 25. 100	1600		
10	1	5 1/2" FGR. 250. ACCESS PORTAL	250		
11	20	1 1/2" W. 25. 25. 100	1600		
12	1	5 1/2" FGR. 250. ACCESS PORTAL	250		
13	20	1 SPACE			
14	20	1 SPACE			
15	20	1 SPACE			
16	20	1 SPACE			
17	20	1 SPACE			
18	20	1 SPACE			
19					
20					
21					
22					
23					
24					
TOTAL		TOTAL PANEL LOAD IN WATTS	2620	7.9	2.8

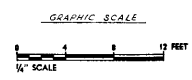


- NOTES:**
- LIGHTING CIRCUITS "CW1", 2, & 4 ARE SWITCHED BY MEANS OF A 3 POLE SIZE "A" CONTACTOR AT LIGHTING PANEL "CW1"
 - FOR OTHER CONDUITS IN ROOM 201 SEE SHIT CW-E5.
 - FOR EXISTING CONDUIT SLEEVE SCHEDULE, LOCATION & NEW CONNECTIONS SEE SHIT CW-E5.
 - CONDUIT SHOWN GOING THROUGH RMC 201, 202, 203 SHALL BE ROUTED THROUGH EXISTING SLEEVES AS INDICATED ON PLAN.
 - LIGHTING FIXTURES SHALL BE SHOCK MOUNTED PER DETAILS UNLESS OTHERWISE NOTED.
 - ALL LIT. CONDUITS SHALL BE IN GROUPS & OF THE CONDUIT MANAGEMENT AS SHOWN ON SHIT CW-E5 & CC-E5.
 - FOR CONDUIT SUPPORT IN RMC 201, 202, 203, 204 & 205 SEE STRUCTURAL SHIT CW-S6.

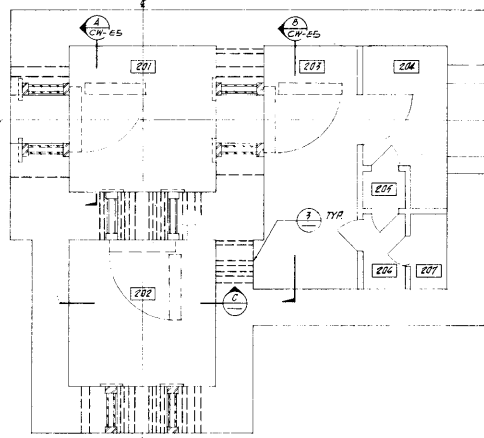
P L A N
E.L.D. 265' 4"



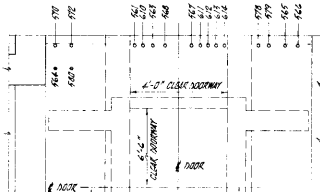
WIRING DIAGRAM FOR LIGHTING IN CABLEWAY



REVISION NO.	DATE	DESCRIPTION	BY	CHKD
1		ADDED COLOR CODING & WIRE # TO CONDUIT RUNS & NOTES RE W.P. POL. COLOR. RELOCATED SW		
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 817 WEST BROAD STREET LOS ANGELES 12, CALIFORNIA		DEPARTMENT OF THE AIR FORCE AIR FORCE BALTIC WAREHOUSE (AWC) INGLEWOOD, CALIFORNIA		
DESIGNER: OSTROMICKI DRAWN BY: PEREZ CHECKED BY: PEREZ DATE: 1718-10		SM-68B TECHNICAL FACILITIES STANDARD PLANS CABLEWAY LIGHTING PLAN		
SCALE: 1/4" = 1'-0" SHEET NO.: 172		SPECIFICATION NO.: SM-68B-01-12 DATE: 1718-10 SERIES: CEBMO SERIES SHEET NO.: 172		



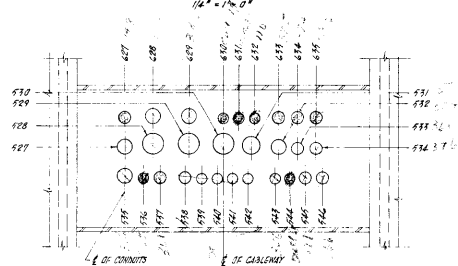
PLAN-BLAST LOCK
1/8" = 1'-0"



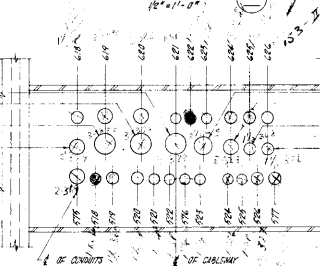
SECTION D
1/8" = 1'-0"



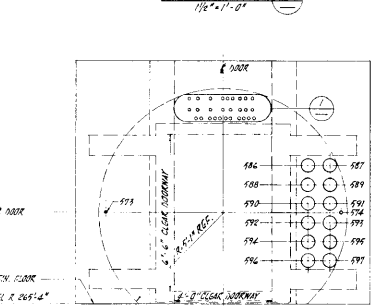
SECTION C
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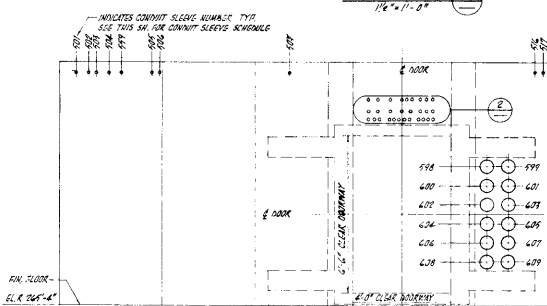
DETAIL 1
1/4" = 1'-0"



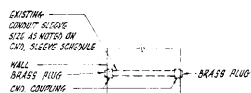
DETAIL 2
1/4" = 1'-0"



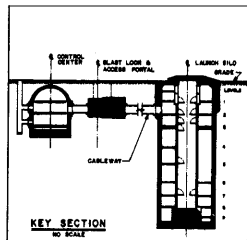
SECTION A
1/8" = 1'-0"



SECTION B
1/8" = 1'-0"



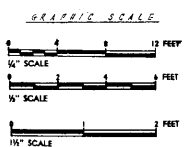
DETAIL
N.T.S.



EXISTING CONDUIT SLEEVE SCHEDULE

NO	SIZE	REMARKS	NO	SIZE	REMARKS	NO	SIZE	REMARKS	NO	SIZE	REMARKS
501	2"	SLEEVE	581	1"	SLEEVE	661	1"	SLEEVE	741	1"	SLEEVE
502	2"	CONNECT TO CHD #377	582	1"	SLEEVE	662	1"	CONNECT TO CHD #775	742	1"	CONNECT TO CHD #710
503	1"	CONNECT TO CHD #377	583	1"	CONNECT TO CHD #356	663	1"	CONNECT TO CHD #775	743	1"	SLEEVE
504	1"	CONNECT TO CHD #417	584	1"	CONNECT TO BATTERY UT	664	1"	CONNECT TO CHD #775	744	1"	CONNECT TO TEL #420 U
505	1/2"	CONNECT TO CHD #346-1	585	1/2"	CONNECT TO CHD #377	665	1/2"	CONNECT TO CHD #775	745	1/2"	CONNECT TO TEL #420 U
506	1/2"	CONNECT TO BATTERY UT	586	1/2"	CONNECT TO CHD #366	666	3/4"	CONNECT TO 5" CHD IN RM 801	746	1/2"	SLEEVE
507	1/2"	SIC JUNCTIONS #12 B.C. WIRE	587	1/2"	SLEEVE	667	1/2"	SLEEVE	747	1/2"	CONNECT TO CHD #448
508	2"	CONNECT TO CHD #348	588	1"	CONNECT TO "COM" S.T. 1012	668	1"	SLEEVE	748	1"	CONNECT TO CHD #448
509	1"	CONNECT TO CHD #379	589	1"	CONNECT TO "COM" S.T.	669	1"	SLEEVE	749	1"	CONNECT TO CHD #448
510	3/4"	CONNECT TO CHD #379	590	1/2"	CONNECT TO CHD #376	670	1"	SLEEVE	750	1"	CONNECT TO CHD #448
511	3/4"	CONNECT TO CHD #379	591	1/2"	CONNECT TO CHD #376	671	1"	SLEEVE	751	1"	CONNECT TO CHD #448
512	3/4"	CONNECT TO CHD #379	592	1/2"	CONNECT TO CHD #376	672	1"	SLEEVE	752	1"	CONNECT TO CHD #448
513	1/2"	CONNECT TO CHD #379	593	1/2"	CONNECT TO CHD #376	673	1"	SLEEVE	753	1"	CONNECT TO CHD #448
514	1/2"	CONNECT TO CHD #379	594	1/2"	CONNECT TO CHD #376	674	1"	SLEEVE	754	1"	CONNECT TO CHD #448
515	1/2"	CONNECT TO CHD #379	595	1/2"	CONNECT TO CHD #376	675	1"	SLEEVE	755	1"	CONNECT TO CHD #448
516	1/2"	CONNECT TO CHD #379	596	1/2"	CONNECT TO CHD #376	676	1"	SLEEVE	756	1"	CONNECT TO CHD #448
517	1/2"	CONNECT TO CHD #379	597	1/2"	CONNECT TO CHD #376	677	1"	SLEEVE	757	1"	CONNECT TO CHD #448
518	1/2"	CONNECT TO CHD #379	598	1/2"	CONNECT TO CHD #376	678	1"	SLEEVE	758	1"	CONNECT TO CHD #448
519	1/2"	CONNECT TO CHD #379	599	1/2"	CONNECT TO CHD #376	679	1"	SLEEVE	759	1"	CONNECT TO CHD #448
520	1/2"	CONNECT TO CHD #379	600	1/2"	CONNECT TO CHD #376	680	1"	SLEEVE	760	1"	CONNECT TO CHD #448
521	1/2"	CONNECT TO CHD #379	601	1/2"	CONNECT TO CHD #376	681	1"	SLEEVE	761	1"	CONNECT TO CHD #448
522	1/2"	CONNECT TO CHD #379	602	1/2"	CONNECT TO CHD #376	682	1"	SLEEVE	762	1"	CONNECT TO CHD #448
523	1/2"	CONNECT TO CHD #379	603	1/2"	CONNECT TO CHD #376	683	1"	SLEEVE	763	1"	CONNECT TO CHD #448
524	1/2"	CONNECT TO CHD #379	604	1/2"	CONNECT TO CHD #376	684	1"	SLEEVE	764	1"	CONNECT TO CHD #448
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531	1/2"	CONNECT TO CHD #379	611	1/2"	CONNECT TO CHD #376	691	1"	SLEEVE	771	1"	CONNECT TO CHD #448
532	1/2"	CONNECT TO CHD #379	612	1/2"	CONNECT TO CHD #376	692	1"	SLEEVE	772	1"	CONNECT TO CHD #448
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540	1/2"	CONNECT TO CHD #379	620	1/2"	CONNECT TO CHD #376	700	1"	SLEEVE	780	1"	CONNECT TO CHD #448

NOTES:
1. FOR LOCATION OF EXISTING SLEEVE NO. 571, 581 THROUGH 585 SEE SECTION A.
2. W/ALL CONDUITS CONNECTED TO EXISTING CONDUIT SLEEVES ARE NOT OF THE SAME SIZE, REDUCERS SHALL BE USED.
3. EXCESS BRASS PLUGS SHALL BE CONSIDERED AS DEBRIS.



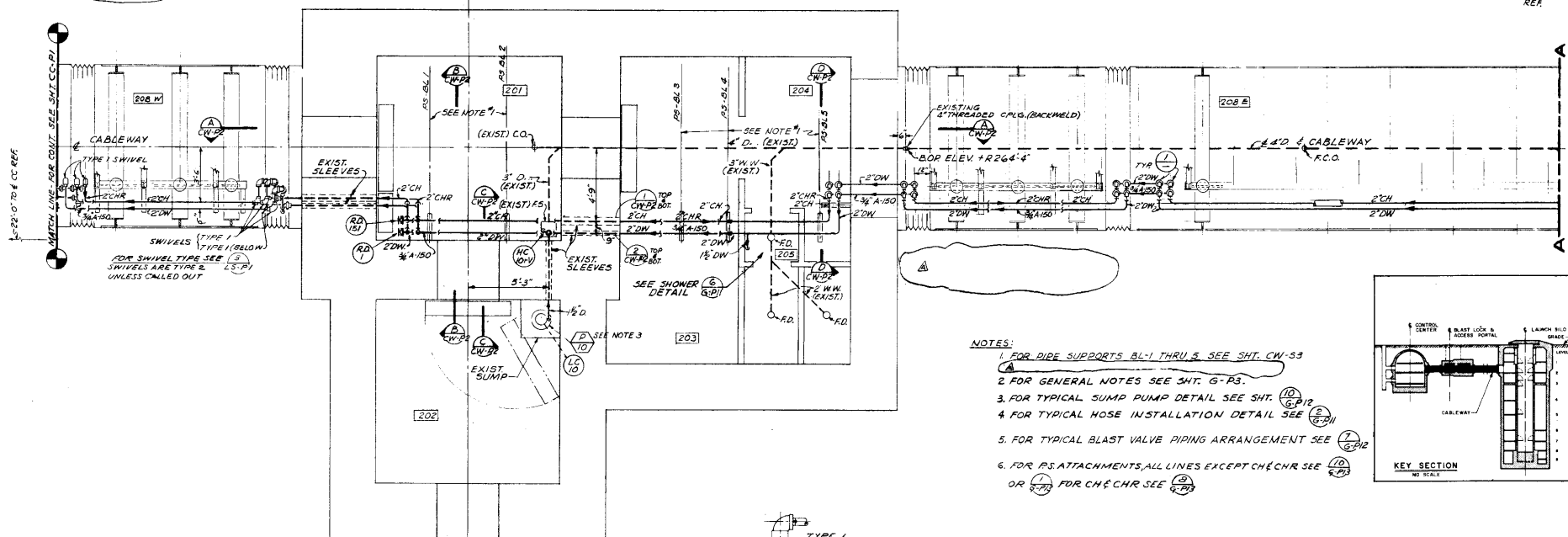
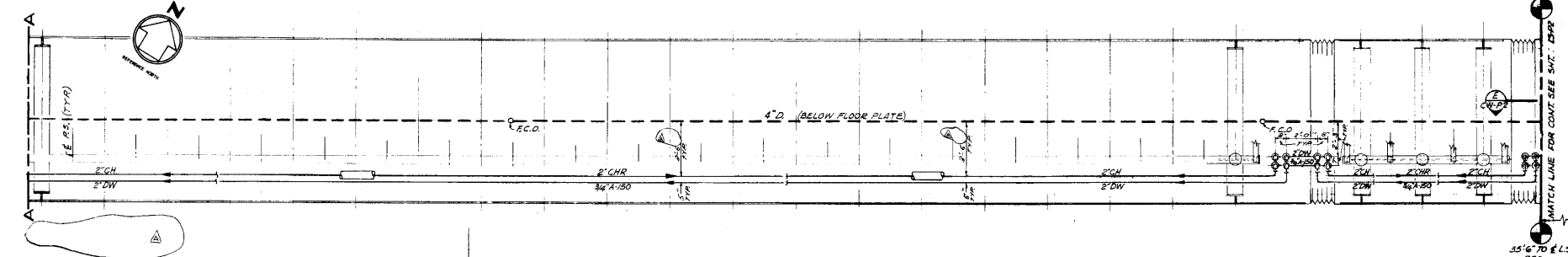
11-11-77
11/16/77
DATE: 11/16/77
BY: [Signature]

THE RALPH AL. PARSONS COMPANY
ARCHITECT - ENGINEER
817 WEST BRYANT STREET, LOS ANGELES 12, CALIFORNIA

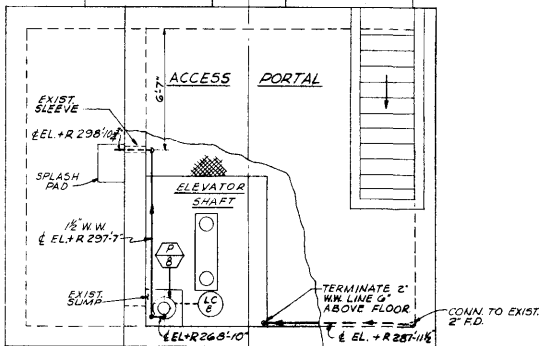
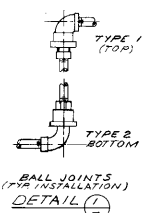
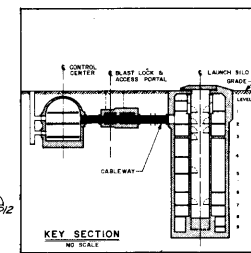
DEPARTMENT OF THE AIR FORCE
AIR FORCE BALISTIC MISSILE DIVISION (AFSC)
INDEPENDENCE, CALIFORNIA

SM-68B TECHNICAL FACILITIES
STANDARD PLANS
CABLEWAY
EXISTING SLEEVES

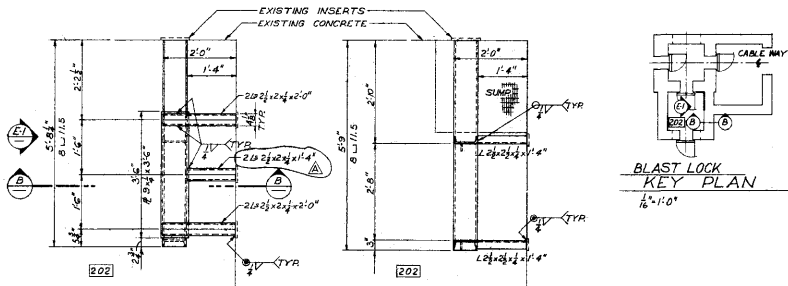
SCALE: AS NOTED



- NOTES:**
1. FOR DIRT SUPPORTS BL-1 THRU 5 SEE SHT. CW-53
 2. FOR GENERAL NOTES SEE SHT. G-PS.
 3. FOR TYPICAL PUMP DETAIL SEE SHT. 10/6/PIR
 4. FOR TYPICAL HOSE INSTALLATION DETAIL SEE 7/2/PI
 5. FOR TYPICAL BLAST VALVE PIPING ARRANGEMENT SEE 7/6/PIR
 6. FOR PS ATTACHMENTS, ALL LINES EXCEPT CH&CHR SEE 10/6/PS OR 7/1/PIR FOR CH&CHR SEE 9/2/PIR

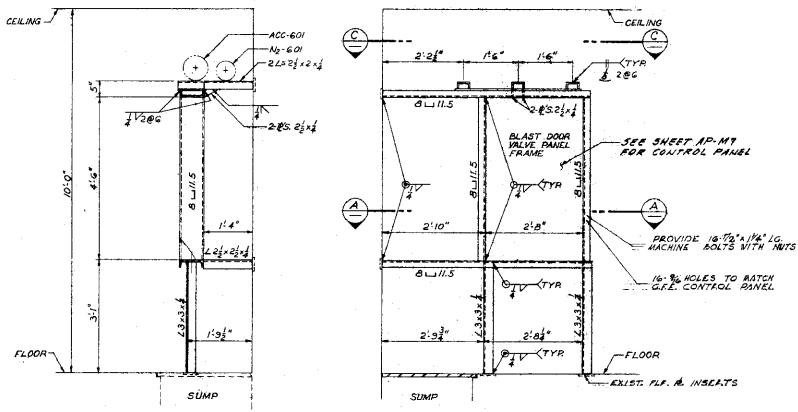


REVISION NO.	DATE	DESCRIPTION	BY
1	8-28-64	DELETED NOTE & DIM	
THE RALPH M. PARSONS COMPANY		DEPARTMENT OF THE AIR FORCE	
ARCHITECT - ENGINEER		AIR FORCE BALLISTIC MISSILE DIVISION (ARDC)	
817 WEST BAYVIEW STREET, LOS ANGELES 12, CALIFORNIA		INDIENWOOD, CALIFORNIA	
DESIGNED BY: COATES	PROJECT NO.: S-CW-PI	SM-688 TECHNICAL FACILITIES	
DRAWN BY: BEASLEY	DATE: 4-28-64	STANDARD PLANS	
CHECKED BY: GIBSON	SCALE: 1/8\"/>		



PLAN SECT. (C)
3/2" x 1'-0"

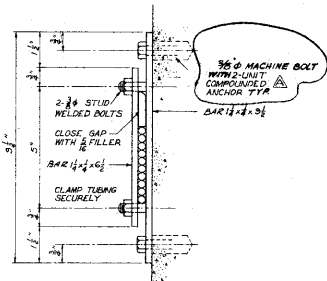
PLAN SECT. (A)
3/2" x 1'-0"



SECTION (B)
3/2" x 1'-0"

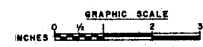
FRONT ELEVATION (E-1) REF. AP-M7
3/2" x 1'-0"

SUPPORT FOR BLAST DOOR VALVE PANEL
AND VESSELS ACC-601 & N2-601



P.S. FOR 1/2" # HYDRAULIC TUBING
HALF FULL SIZE
FOR P.S. SPACING SEE DWG. AP-M7

A.C.N.C.
APPROVED
DATE: 10/1/68
BY: [Signature]
FOR THE WORK OF THE ENGINEER



478-67 REVISED LENGTH L; REF. ANCHORS CALLOUT REVISION NO. DATE DESCRIPTION AGENCY WT.	
THE RALPH M. PARSONS COMPANY ARCHITECT - ENGINEER 417 WEST BRIDGE STREET LOS ANGELES 17, CALIFORNIA	
DEPARTMENT OF THE AIR FORCE AIR FORCE BALLISTIC MISSILE DIVISION (AFBCD) INGLEWOOD, CALIFORNIA	
DESIGNED BY: FORK DRAWN BY: Archie G. Baker CHECKED BY: Walter J. Galloway DATE: 1/17/68	PROJECT NO.: S-CW-85 DRAWING NO.: 1718-1C SHEET NO.: 4/7
SM-68B TECHNICAL FACILITIES STANDARD PLANS CABLEWAY VALVE PANEL SUPPORTS	
PREPARED BY: Archie G. Baker DATE: 1/17/68 CHECKED BY: Walter J. Galloway DATE: 1/17/68	REVISION NO. 1 DATE: 1/17/68 BY: Archie G. Baker REASON: AS NOTED SCALE: AS NOTED SHEET NO.: 168