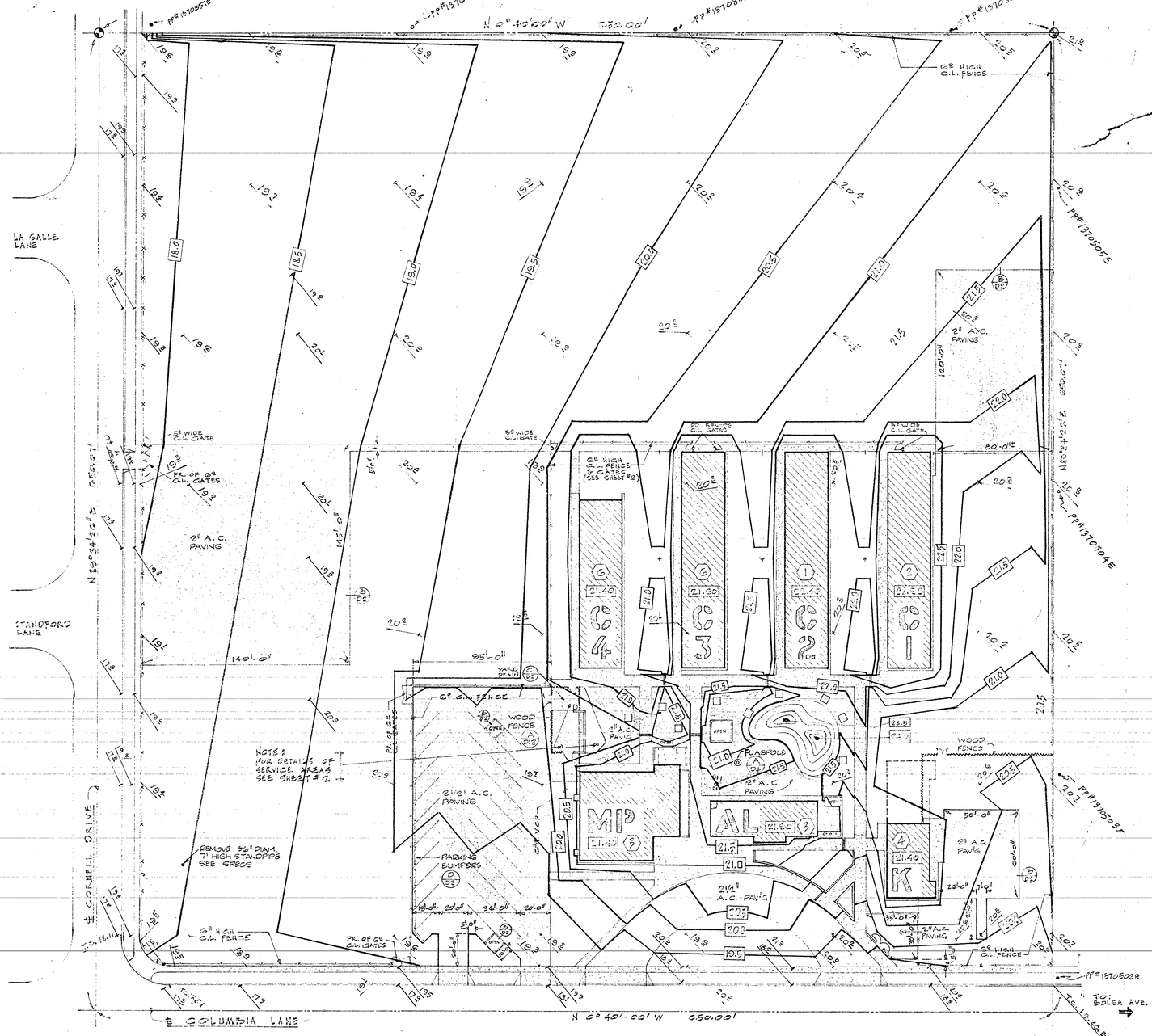
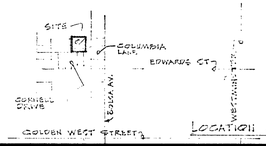


PLOT PLAN

SCALE 1" = 40'-0"

NORTH



LOCATION MAP NO SCALE

NOTE:
- FOR BLDG. LAYOUT AND MISC. SITE DEVELOPMENT SEE SHEET #2.
- SEE ⓪ FOR SPECIFIC REQUIREMENTS. (SHEET NO.)
- FOR OFF-SITE STREET WORK AND SIDEWALK DEVELOPMENT, SEE SHEET NO. G1.
- A.C. PAVING, SEE PLAN FOR THICKNESS.
- CONC. PAVEMENT SEE SHEET #2.

6ft HIGH C.L. FENCE - SET 6" INSIDE PROPERTY LINE
21.0 FINISH CONTOUR GRADE LINES
22.0 FINISH GRADE ELEVATIONS
22.0 EXISTING GRADES AT STATION POINTS

SCHEDULE OF DRAWINGS

SHT. NO.	DESCRIPTION
	ARCHITECTURAL
1	PLOT PLAN & SCHEDULE OF DRAWINGS
2	STAKING PLAN
3	FLOOR PLANS - UNITS - MP & AL
4	KINDERGARTEN & FLOOR PLAN & EXT. ELEVS.
5	FLOOR PLANS - CLASSROOMS - UNITS-C1 & C2
6	FLOOR PLANS - CLASSROOMS - UNITS-C3 & C4
7	EXTERIOR ELEVATIONS - UNITS - MP & AL
8	EXTERIOR ELEVATIONS - UNITS - C1 THRU C4
9	ROOF PLAN
10	ROOF DETAILS
11	DOOR SCHEDULE & FRAME ELEVS
12	DOOR DETAILS
13	WINDOW SCHEDULE
14	WINDOW DETAILS
15	INTERIOR ELEVATIONS - UNITS - C1 THRU C4
16	INTERIOR ELEVATIONS - UNIT-K - MISC. INTERIORS
17	INTERIOR ELEVATIONS - UNIT - AL
18	INTERIOR ELEVATIONS - UNIT - MP
19	MISC. DETAILS - UNIT - MP
T-1	TYPICAL DETAILS
	STRUCTURAL
S-1	TYPICAL NOTES & DETAILS
S-2	FOUNDATION PLAN - UNITS - C1 THRU C4
S-3	FOUNDATION PLAN - UNITS - MP & AL
S-4	FOUNDATION & ROOF PLANS - UNIT - K
S-5	ROOF PLAN - UNITS - C1 THRU C4
S-6	ROOF PLAN - UNITS - MP & AL
S-7	ROOF PLAN - COVERED WALK
S-8	CLASSROOM DETAILS & SECTIONS
S-9	DETAILS & SECTIONS - UNITS MP & AL
S-10	
S-11	
S-12	
S-13	
	MECHANICAL
P-1	PLUMBING PLOT PLAN, SCHEDULES
P-2	PLUMBING PLAN - UNITS - MP & AL
P-3	PLUMBING PLAN - UNITS - C1 THRU C4
P-4	PLUMBING PLAN - UNIT - K
P-5	PLUMBING DETAILS
H-1	HEATING PLOT PLAN, HEATING PLAN, UNIT K
H-2	HEATING PLAN - UNITS - MP & AL
H-3	HEATING PLAN - UNITS - C1 THRU C4
H-4	CONTROL DIAGRAMS - SCHEDULES
H-5	MISC. DETAILS, SECTIONS & DIAGRAMS
	ELECTRICAL
E-1	ELECT. PLOT PLAN - SCHEDULES
E-2	ELECT. LIGHTING PLAN - UNITS MP & AL
E-3	ELECT. PHONE & INTER-COM PLAN-MP & AL
E-4	ELECT. LIGHTING & RECEPTACLE PLAN - UNITS C1-3
E-5	ELECT. LIGHTING PLAN - UNITS C4 & K
E-6	SCHEDULES, DETAILS, TYPICAL SECTION
G-1	STREET WORK
G-2	STREET WORK
SP-1	LAWN SPRINKLER LAYOUT
52	TOTAL SHEETS
DETAIL SHEETS D1 THRU D14 - BOUND IN SPECS.	

APPROVED:
ARCHITECT
ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
APPL. NO. 23333
DATE 7-11-62
PRINCIPAL STRUCTURAL ENGINEER

APPROVED: FOR THE DISTRICT
7/11/62

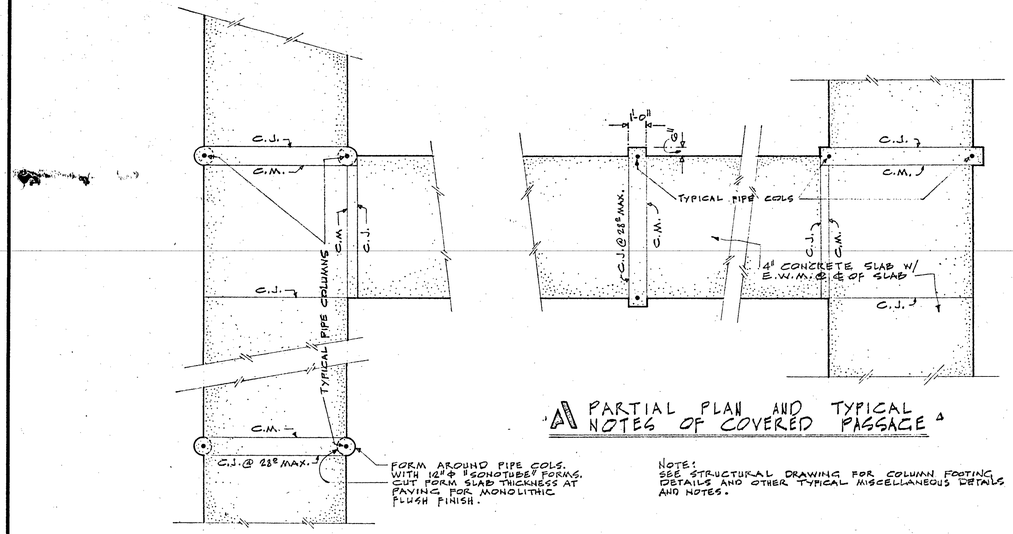
SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
CORNELL AT CORNELL WESTMINSTER, CALIFORNIA

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
818 W. 5th STREET MA 4-8748
LOS ANGELES 17 CALIFORNIA

DIRECTOR OF BUILDING, DEPT. OF EDUCATION
7-11-62

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

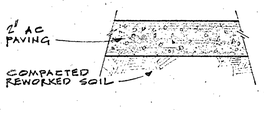
DATE OF DRAWING 5/28/62
DRAWN BY McNELL
DRAWING NO. 1 OF 52



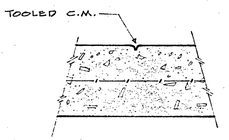
(A1) ALTERNATE METHOD AT CONTRACTOR'S OPTION

(A) PARTIAL PLAN AND TYPICAL NOTES OF COVERED PASSAGE △

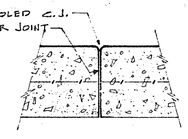
NOTE:
SEE STRUCTURAL DRAWING FOR COLUMN FOOTING DETAILS AND OTHER TYPICAL MISCELLANEOUS DETAILS AND NOTES.



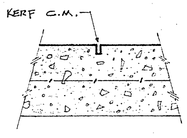
(C4) A.C. PAVING OVER COMPACTED FILL



(B1) CEMENT MARK

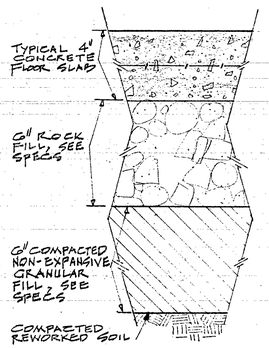


(B2) COLD JOINT

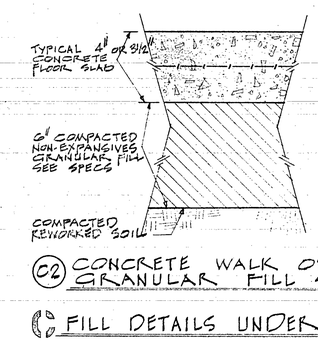


(B3) CEMENT MARK

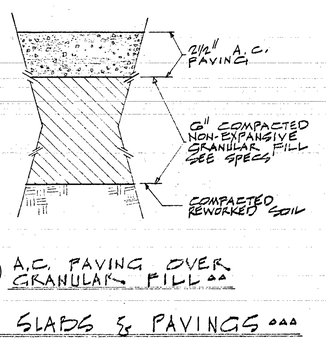
(B) TYPICAL CONCRETE PAVING DETAILS △△



(C3) CONCRETE SLAB FLOOR OVER ROCK & GRANULAR FILL △△△



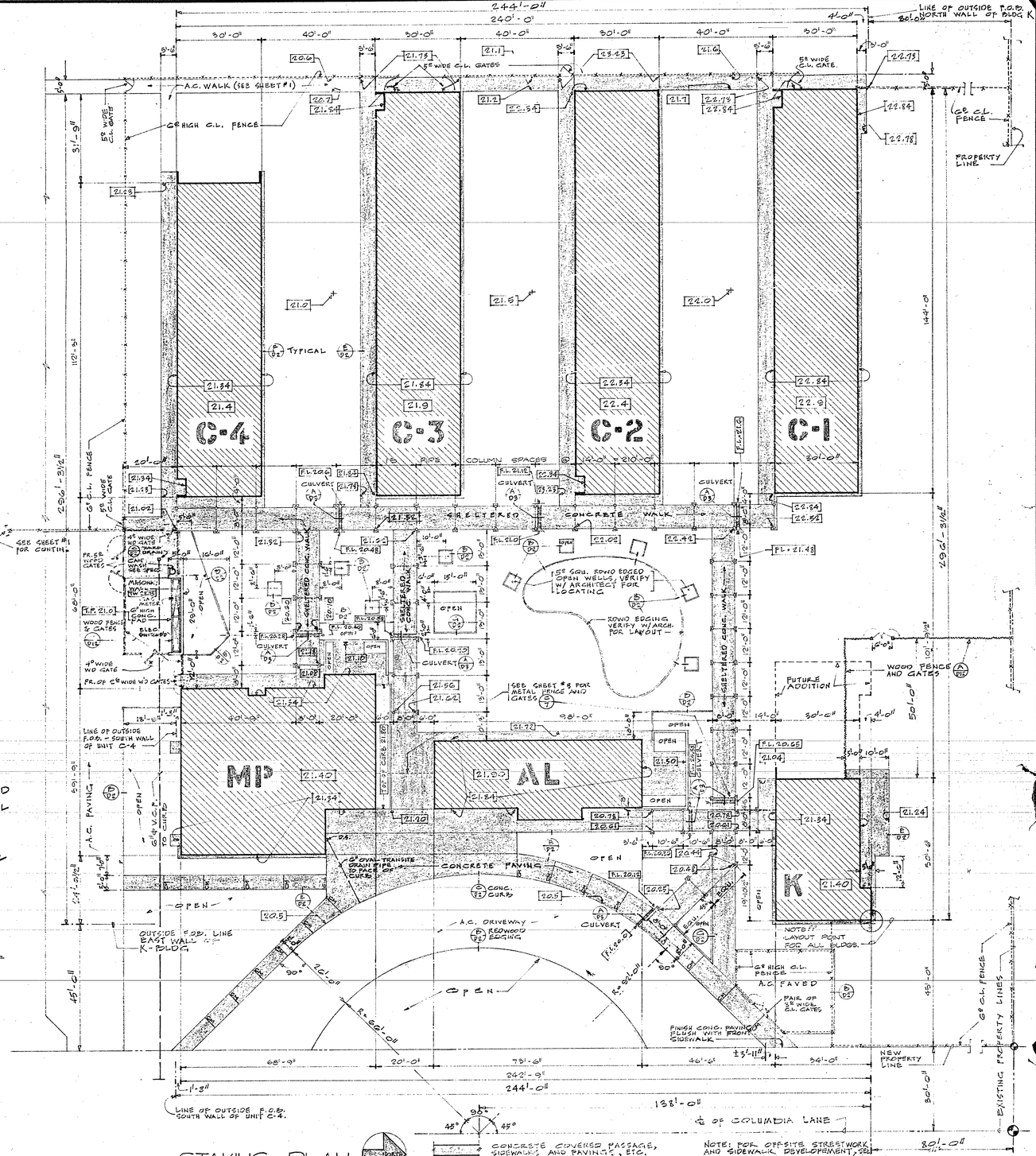
(C2) CONCRETE WALK OVER GRANULAR FILL △△△



(C1) A.C. PAVING OVER GRANULAR FILL △△

(C) FILL DETAILS UNDER FLOOR SLABS & PAVINGS △△△

NOTE:
SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR FILL MATERIAL, NOTES, DIMENSIONS AND DETAILS NOT SHOWN HERE.



STAKING PLAN
SCALE 1" = 20'-0"

CONCRETE COVERED PASSAGE, SIDEWALKS AND PAVINGS, ETC.

NOTE: FOR A.C. PAVED AREAS SEE SHT #1.

NOTE: FOR OFF-SITE STREETWORK AND SIDEWALK DEVELOPMENT, SEE SHEET NO. G1

APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE APPL. NO. 22220 DATE MAR 28 1962 PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT T.M. Eastwood	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 816 W. 5th STREET LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 8/28/62 DRAWN BY McNELL	DRAWING NO. 2 OF 32

FINISH SCHEDULE

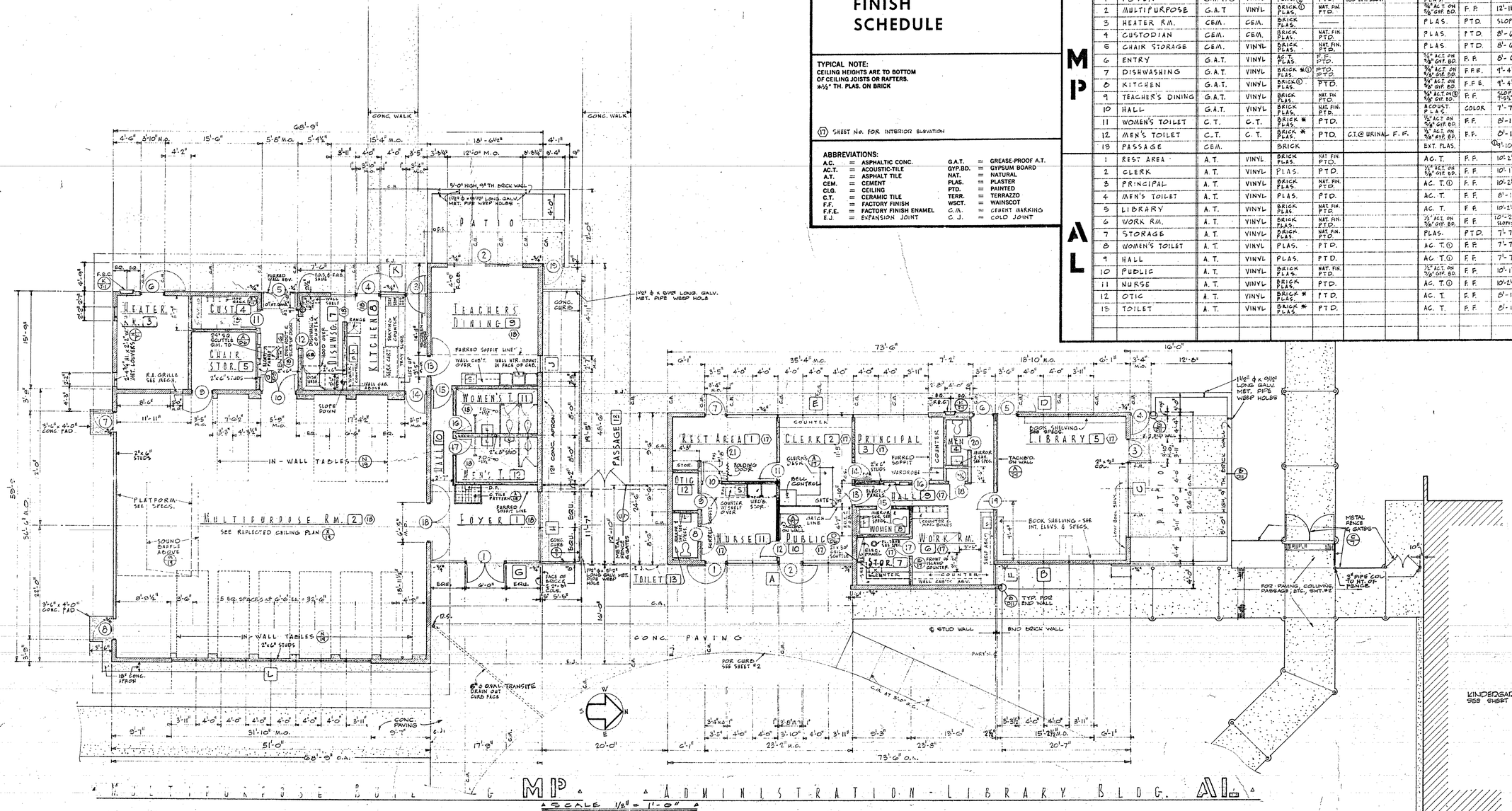
TYPICAL NOTE:
CEILING HEIGHTS ARE TO BOTTOM OF CEILING JOISTS OR RAFTERS.
W½" TH. PLAS. ON BRICK

(17) SHEET No. FOR INTERIOR ELEVATION

ABBREVIATIONS:

A.C.	=	ASPHALTIC CONC.	G.A.T.	=	GREASE-PROOF A.T.
AC.T.	=	ACOUSTIC-TILE	GYP.BD.	=	GYPSUM BOARD
A.T.	=	ASPHALT TILE	NAT.	=	NATURAL
CEM.	=	CEMENT	PLAS.	=	PLASTER
CLG.	=	CEILING	PTD.	=	PAINTED
C.T.	=	CERAMIC TILE	TERR.	=	TERRAZZO
F.F.	=	FACTORY FINISH	WSCT.	=	WAINSCOT
F.F.E.	=	FACTORY FINISH ENAMEL	C.M.	=	CEMENT MARKING
E.J.	=	EXPANSION JOINT	C.J.	=	COLD JOINT

UNIT	No.	ROOM NAME	FLOOR MATERIAL	FLOOR BASE	WALLS MATERIAL	WALLS FIN.	WAINSCOT MATERIAL	WAINSCOT FIN.	CEILING MATERIAL	CEILING FIN.	CEILING HEIGHT	REMARKS
MP	1	FOYER	G.A.T. ①	VINYL	BRICK PLAS. ⑤	NAT. FIN. PTD.	C.T. @ D.F. SSB INT. ELEV.	F. F.	ACOUST. PLAS.	COLOR	9'-10⅝" ±	① C.TILE PATTERN AT DRINK. FOUNT. ⑤ ACOUST. PLAS. SOFFIT FACE
	2	MULTIPURPOSE	G.A.T	VINYL	BRICK ① PLAS.	NAT. FIN. PTD.			⅝" AC.T. ON ⅝" GYP. BD.	F. F.	12'-11"	① AC.T. ON PORT'N. NORTH WALL
	3	HEATER RM.	CEM.	CEM.	BRICK PLAS.	——			PLAS.	PTD.	SLOPES	
	4	CUSTODIAN	CEM.	CEM.	BRICK PLAS.	NAT. FIN. PTD.			PLAS.	PTD.	8'-6"	
	5	CHAIR STORAGE	CEM.	VINYL	BRICK PLAS.	NAT. FIN. PTD.			PLAS	PTD.	8'-6"	
	6	ENTRY	G.A.T.	VINYL	AC.T. PLAS.	F.F. PTD.			¾" ACT ON ⅝" GYP. BD.	F. F.	8'-6"	
	7	DISHWASHING	G.A.T.	VINYL	BRICK ⑤① PLAS.	PTD. PTD.			⅝" AC.T. ON ⅝" GYP. BD.	F.F.E.	9'-4½"	⑤ ¾" TH. PLAS ON SOUTH BRICK WALL ① NAT. FINISH EAST & WEST WALL
	8	KITCHEN	G.A.T.	VINYL	BRICK① PLAS.	PTD.			⅝" AC.T. ON ⅝" GYP. BD.	F.F.E.	9'-4½"	① EAST WALL NAT. FINISH
	9	TEACHER'S DINING	G.A.T.	VINYL	BRICK PLAS.	NAT. FIN PTD			⅝" ACT ON ⅝" GYP. BD.	F.F.	SLOPES 7'-9½" TO 9'-4½"	- CLG MATL. FURRED SOFFIT FACE. (1) PLAS. FURR. SOFFIT.
	10	HALL	G.A.T.	VINYL	BRICK PLAS.	NAT. FIN. PTD.			ACOUST. PLAS.	COLOR	7'-7"	
	11	WOMEN'S TOILET	C.T.	C.T.	BRICK ⑤ PLAS.	PTD.			½" ACT ON ⅝" GYP. BD.	F.F.	8'-1"	⑤ W½" TH. PLAS. ON BRICK WALL
	12	MEN'S TOILET	C.T.	C.T.	BRICK ⑤ PLAS.	PTD.	C.T. @ URINAL	F. F.	½" ACT. ON ⅝" GYP. BD.	F.F.	8'-1"	⑤ W½" TH. PLAS. ON BRICK WALL
	13	PASSAGE	CEM.		BRICK				EXT. PLAS.		9'-10½" ±	⑩ HEIGHT ABOVE M.P. BLDG. FLOOR SLAB - SEE PLOT PLAN
AL	1	REST AREA	A. T.	VINYL	BRICK PLAS.	NAT. FIN PTD.			AC. T.	F. F.	10'-2¼" ±	
	2	CLERK	A. T.	VINYL	PLAS.	PTD.			½" ACT. ON ⅝" GYP. BD.	F. F.	10'-1⅜" ±	
	3	PRINCIPAL	A. T.	VINYL	BRICK PLAS.	NAT. FIN. PTD.			AC. T. ①	F. F.	10'-2¼" ±	① PLAS. SOFFIT PTD.
	4	MEN'S TOILET	A. T.	VINYL	PLAS.	PTD.			AC. T.	F. F.	8'-1" ±	
	5	LIBRARY	A. T.	VINYL	BRICK PLAS.	NAT. FIN. PTD.			AC. T.	F. F.	10'-2¼" ±	
	6	WORK RM.	A. T.	VINYL	BRICK PLAS.	NAT. FIN. PTD.			½" ACT. ON ⅝" GYP. BD.	F. F.	10'-2¼" ± SLOPING (1)	① SLOPING CLG. @ EAST WALL
	7	STORAGE	A. T.	VINYL	BRICK PLAS.	NAT. FIN. PTD.			PLAS.	PTD.	7'-7"	
	8	WOMEN'S TOILET	A. T.	VINYL	PLAS.	PTD.			AC. T. ①	F. F.	7'-7" ±	① AC.T. ON PLAS.
	9	HALL	A. T.	VINYL	PLAS.	PTD.			AC. T. ①	F. F.	7'-7" ±	① AC.T. ON PLAS.
	10	PUBLIC	A. T.	VINYL	BRICK PLAS.	NAT. FIN. PTD.			½" ACT. ON ⅝" GYP. BD.	F. F.	10'-1⅜" ±	
	11	NURSE	A. T.	VINYL	BRICK PLAS.	PTD.			AC. T. ①	F. F.	10'-2¼" ±	① PLAS. SOFFIT PTD.
	12	OTIC	A. T.	VINYL	BRICK ⑤ PLAS.	PTD.			AC. T.	F. F.	8'-1"	
	13	TOILET	A. T.	VINYL	BRICK ⑤ PLAS.	PTD.			AC. T.	F. F.	8'-1"	



GEN'L. NOTES:
- FOR PAVING SEE SHEET #2.
- 2"x 4" INTERIOR STUD WALL TYP. EXCEPT AT PLUMBING FIXTURE (2"x 6" MIN.) OR AS NOTED ON PLAN.
- BRICK WALLS 4½" TH.
- BRICK PATIO WALLS 9" TH.

APPROVED: ARCHITECT	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE 22220 MAR 28 1962 DATE PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT ENGINEER	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 816 W. 5th STREET MA 4-6748 LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/22/62 — DRAWN BY — DRAWING NO. 3 — OF 52

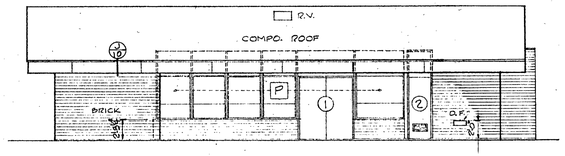
FINISH SCHEDULE

TYPICAL NOTE:
CEILING HEIGHTS ARE TO BOTTOM OF CEILING JOISTS OR RAFTERS.
*½" TH. PLAS. ON BRICK
(14) SHEET NO. FOR ROOM INTERIOR ELEVS.

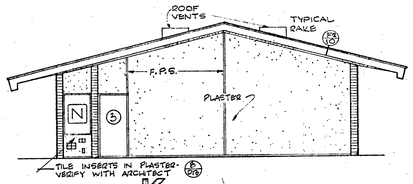
ABBREVIATIONS:

A.C.	=	ASPHALTIC CONC.	G.A.T.	=	GREASE-PROOF A.T.
AC.T.	=	ACOUSTIC-TILE	GYP.BD.	=	GYPSUM BOARD
A.T.	=	ASPHALT TILE	NAT.	=	NATURAL
CEM.	=	CEMENT	PLAS.	=	PLASTER
CLG.	=	CEILING	PTD.	=	PAINTED
C.T.	=	CERAMIC TILE	TERR.	=	TERRAZZO
F.F.	=	FACTORY FINISH	WSCT.	=	WAINSCOT
F.F.E.	=	FACTORY FINISH ENAMEL	E.J.	=	EXPANSION JOINT
C.M.	=	CEMENT MARKING			

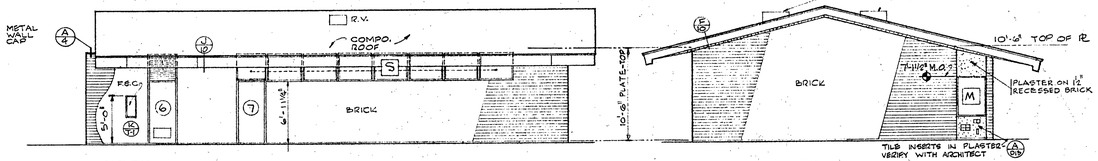
UNIT	No.	ROOM NAME	FLOOR MATERIAL	FLOOR BASE	WALLS MATERIAL	WALLS FIN.	WAINSCOT MATERIAL	WAINSCOT FIN.	CEILING MATERIAL	CEILING FIN.	CEILING HEIGHT	REMARKS
		OMIT										
	2	KINDERGARTEN	A.T. C.T.	VINYL –	BRICK PLAS.	NAT. PTD.	C.TILE AT	LAV.	AC.T.	F.F.	10'-6"	
		OMIT										
	4	TOILET	C.T.	C.T.	PLAS.	PTD.	–	–	AC.T.	F.F.	7'-3"	AC.T. ON 5/8" GYP. BD. CLG.
	5	WORK	A.T.	VINYL	PLAS.	PTD.	–	–	½" ACT. ON 5/8" GYP. BD.	F.F.	8'-2½"±	
	6	HEATER	CONC.	–	BRICK PLAS.	–	–	–	PLAS.	–	10'-6"	1 HR. SEPARATION (A/215)
	7	STORAGE	CONC.	CEM. PLAS.	BRICK PLAS.	PTD. –	–	–	PLAS.	PTD.	7'-3"	
	8	STORAGE	CONC.	CEM. PLAS.	BRICK PLAS.	– PTD.	–	–	PLAS.	PTD.	7'-3"	



NORTH - UNIT K
SCALE 1/8" = 1'-0"



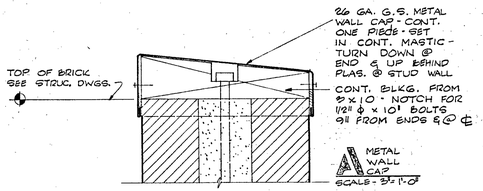
WEST - UNIT K
SCALE 1/8" = 1'-0"

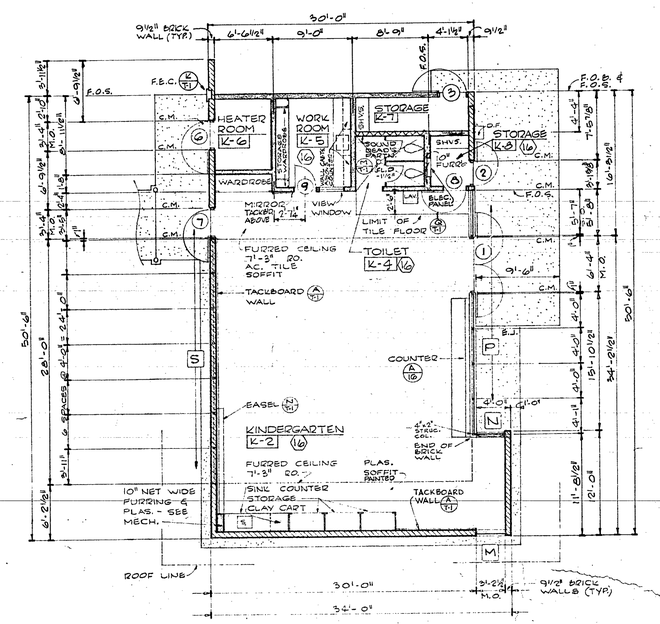


SOUTH
SCALE - 1/8" = 1'-0"

EAST - UNIT K
SCALE 1/8" = 1'-0"

EXTERIOR ELEVATIONS





FLOOR PLAN - UNIT K
SCALE 1/8" = 1'-0"

NORTH

APPROVED: Lee B. Kline ARCHITECT	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE 2222-0 APPL. NO. MAR 28 1962 DATE E. M. Mercer PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT T. M. Eastwood	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 816 W. 5th. STREET MA 4-8746 LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 3/28/62 DRAWN BY MF	DRAWING NO 4 OF 62
ENGINEER							

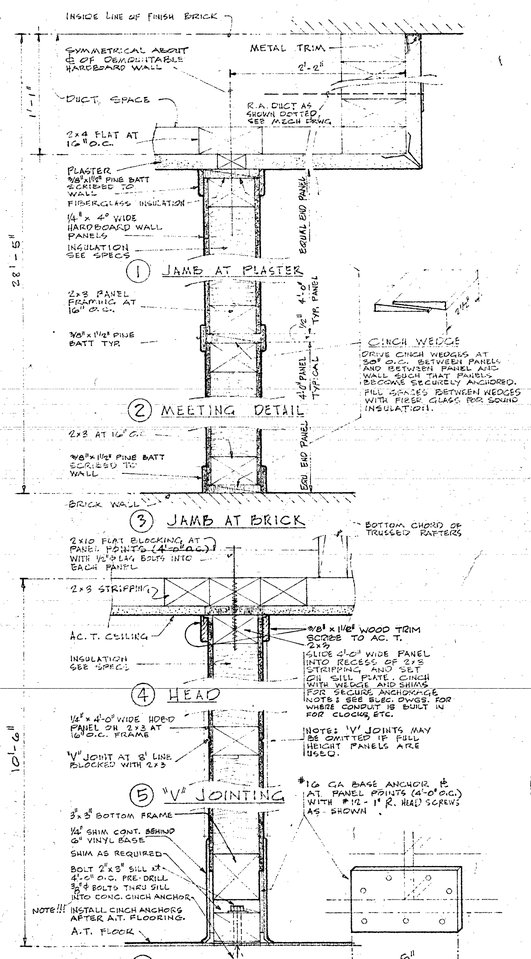
FINISH SCHEDULE

TYPICAL NOTE:
°CEILING HEIGHTS ARE TO BOTTOM OF CEILING JOISTS OR RAFTERS.
*½" TH. PLAS. ON BRICK UNLESS OTHERWISE NOTED
DEMOUNTABLE PARTITION PAINTED
(1) INT. ELEVS. | SHT. NO.

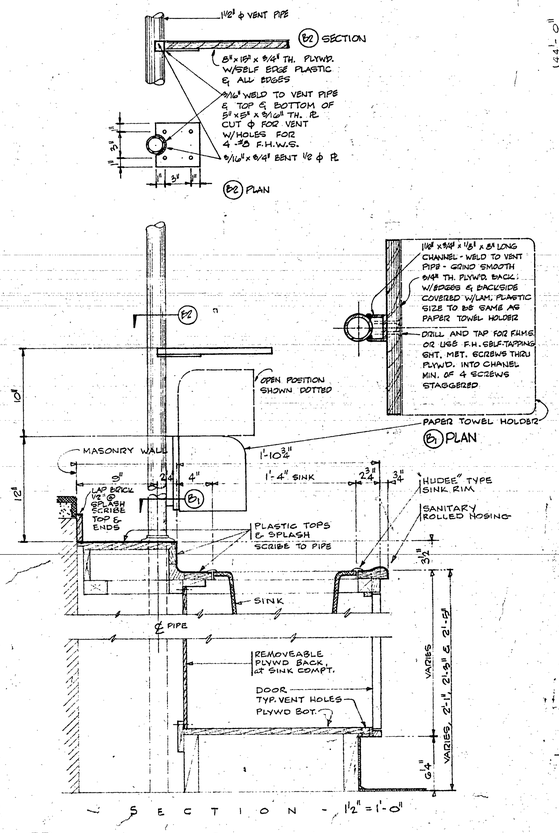
ABBREVIATIONS:

A.C.	= ASPHALTIC CONC.		G.A.T.	=	GREASE-PROOF A.T.
AC.T.	= ACOUSTIC-TILE		GYP.BD.	=	GYPSUM BOARD
A.T.	= ASPHALT TILE		NAT.	=	NATURAL
CEM.	= CEMENT		PLAS.	=	PLASTER
CLG.	= CEILING		PTD.	=	PAINTED
C.T.	= CERAMIC TILE		TERR.	=	TERRAZZO
F.F.	= FACTORY FINISH		WSCT.	=	WAINSCOT
F.F.E.	= FACTORY FINISH ENAMEL		C.M.	=	CEMENT MARKING
C.J.	= COLD JOINT		E.J.	=	EXPANSION JOINT

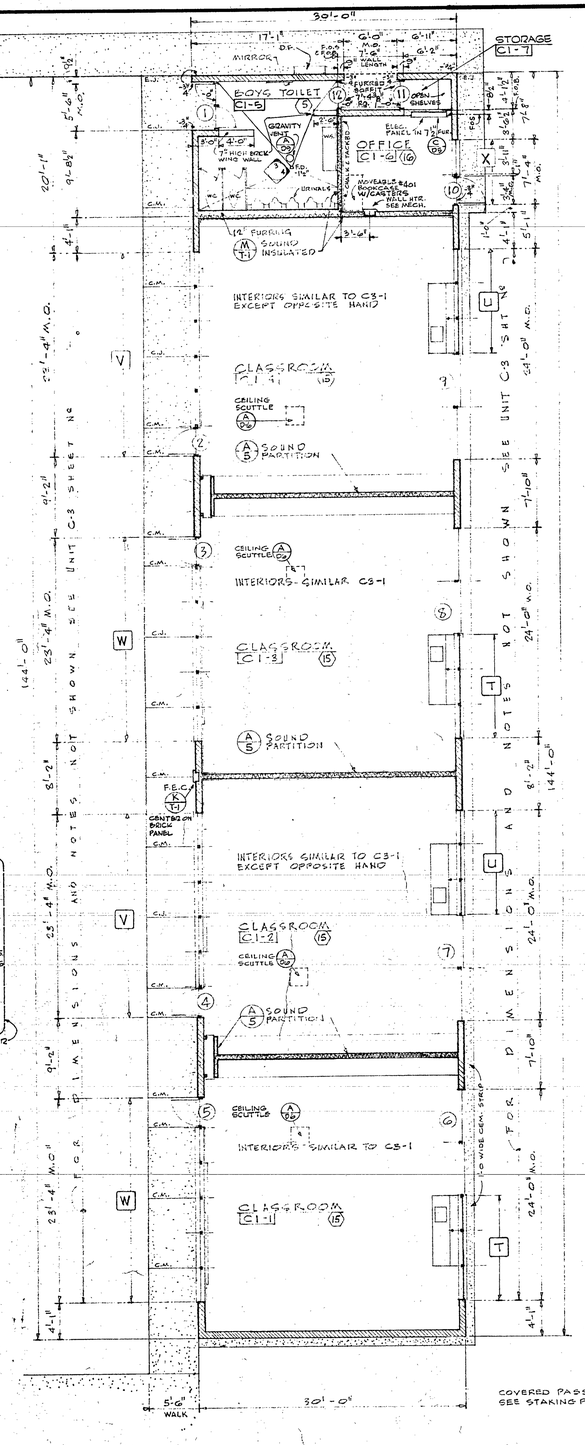
UNIT	No.	ROOM NAME	FLOOR		WALLS		WAINSCOT		CEILING			REMARKS
			MATERIAL	BASE	MATERIAL	FIN.	MATERIAL	FIN.	MATERIAL	FIN.	°HEIGHT	
C1	1	GIRLS TOILET	C.T.	C.T.	*PLAS.	PTD.	C.T.	F.F.	PLAS.	PTD.	10'-0"	*⅝"ø PTD. PLAS OVER BRICK.
C2	2	CUSTODIAN	CEM.	VINYL	PLAS. BRICK	PTD. NAT.	— —	— —	PLAS.	PTD.	10'-0"	
C3	3	HEATER ROOM	CEM.	*	PLAS. BRICK	PTD. NAT.			PLAS.	PTD.	10'-0"	* CEM. PLAS. BASE AT STUD WALLS.
C4	4	CLASSROOM	A.T.	VINYL	HDBD. PLAS BRICK	PTD. NAT.	— —	— —	AC. T.	F.F.	10'-0"	
	5	CLASSROOM	A.T.	VINYL	HDBD. PLAS BRICK	PTD. NAT.	— —	— —	AC. T.	F.F.	10'-6"	
	6	CLASSROOM	A.T.	VINYL	HDBD. PLAS BRICK	PTD. NAT.	— —	— —	AC. T.	F.F.	10'-6"	
	7	CLASSROOM	A.T.	VINYL	HDBD. PLAS BRICK	PTD. NAT.	— —	— —	AC. T.	F.F.	10'-6"	
C5	1	CLASSROOM	A.T.	VINYL	HDBD. PLAS BRICK	PTD. NAT.	—	—	AC. T.	F.F.	10'-6"	
	2	CLASSROOM	A.T.	VINYL	HDBD. PLAS BRICK	PTD. NAT.	—	—	AC. T.	F.F.	10'-6"	
	3	CLASSROOM	A.T.	VINYL	HDBD. PLAS BRICK	PTD. NAT.	—	—	A.T.	F.F.	10'-6"	
	4	CLASSROOM	A.T.	VINYL	HDBD. PLAS BRICK	PTD. NAT.	— —	— —	AC. T.	F.F.	10'-6"	
	5	BOYS TOILET	C.T.	C.T.	*PLAS.	PTD.	C.T.	F.F.	PLAS.	PTD.	10'-6"	*⅝"ø PTD. PLAS OVER BRICK.
	6	OFFICE	A.T.	VINYL	*PLAS. BRICK	PTD.	— —	— —	AC. T.	F.F.	10'-6"	*½"ø PTD. PLAS. OVER BRICK.
	7	STORAGE	CEM.	*	PLAS. BRICK	—	— —	—	PLAS.	—	7'-4"	* CEM. PLAS. BASE AT STUD WALLS.



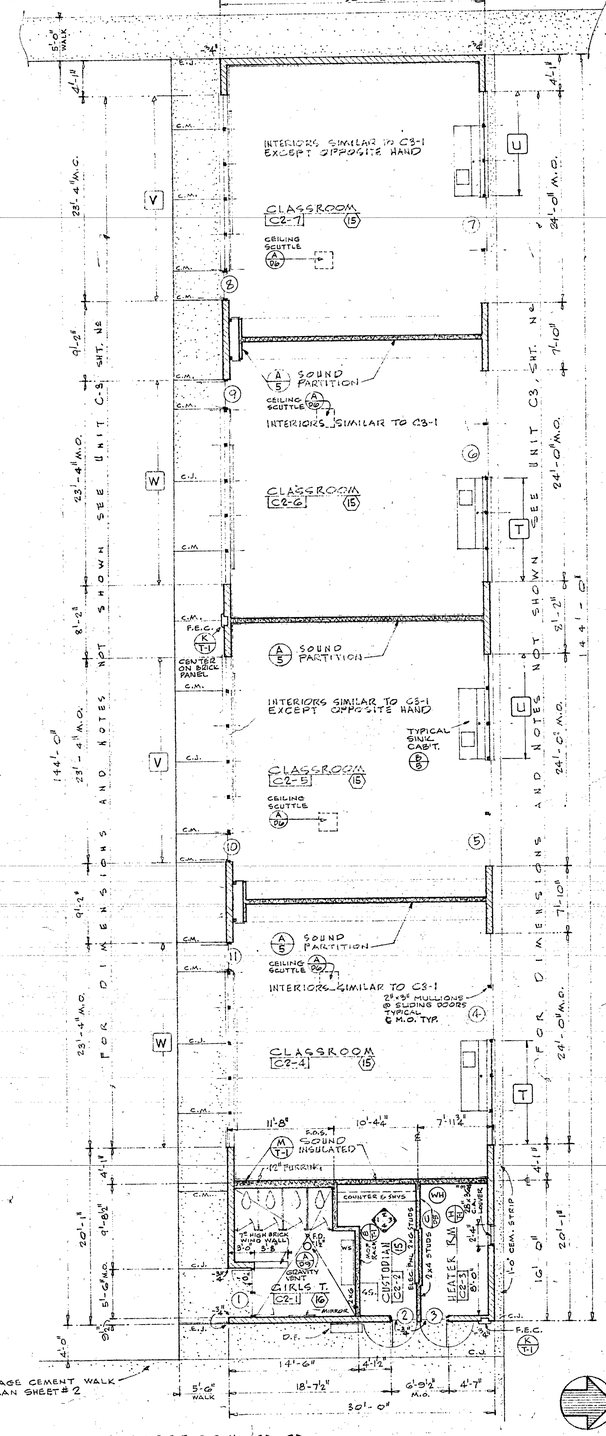
A1 SOUND PARTITION SCALE 3"=1'-0"



B3 TYPICAL CLASSR'M. SINK



A1 CLASSROOM UNIT 1/4"=1'-0"



B2 CLASSROOM UNIT 1/2"=1'-0"

APPROVED	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE	APPROVED: FOR THE DISTRICT
ARCHITECT	22220 APPL NO.	
ENGINEER	MAR 28 1962 DATE	PRINCIPAL STRUCTURAL ENGINEER

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
816 W. 5th STREET MA 4-8748
LOS ANGELES 17, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF 3/26/62
DRAWN BY
DRAWING NO. 5 OF 52

C1 - C2

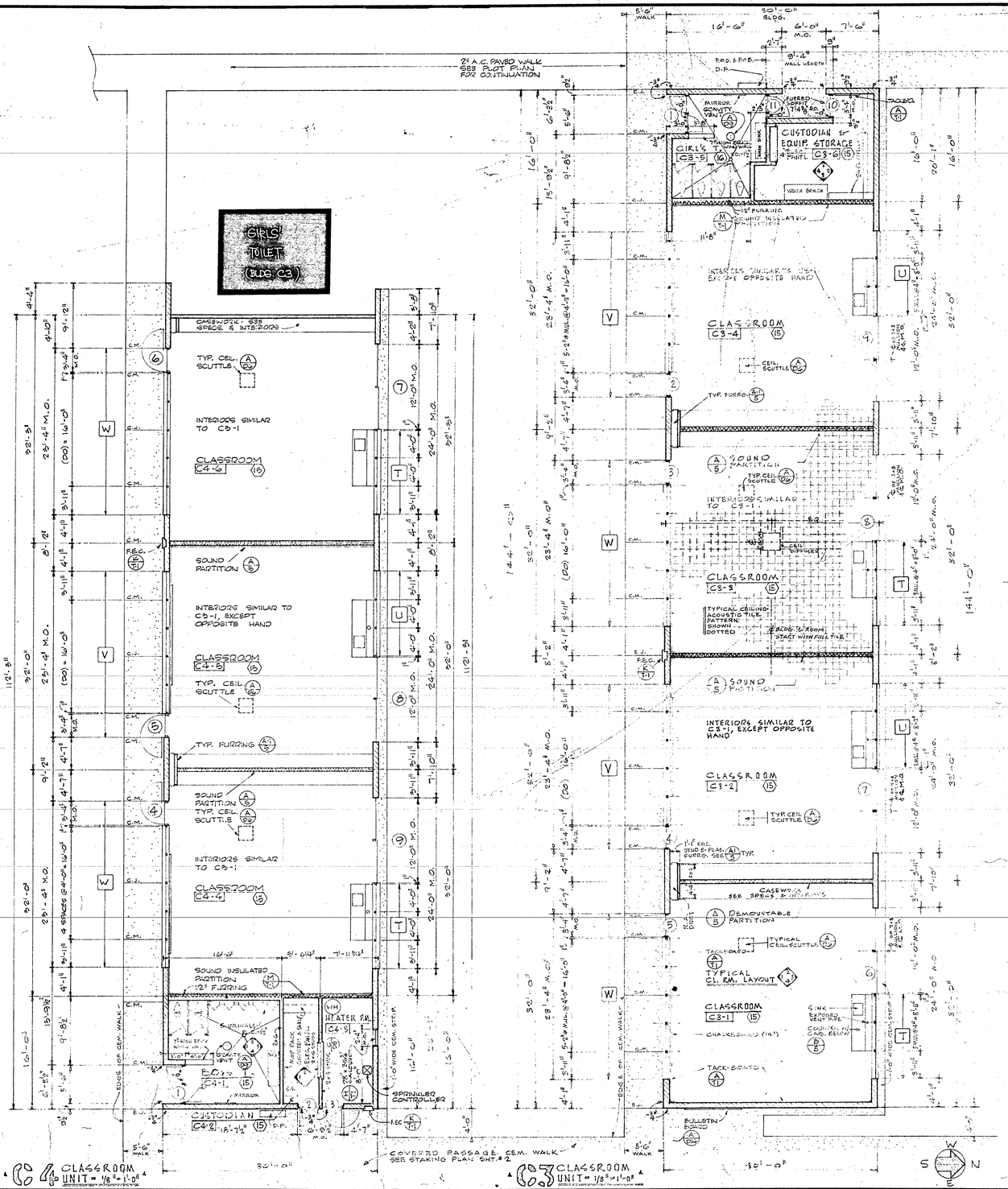
FINISH SCHEDULE

TYPICAL NOTE:
CEILING HEIGHTS ARE TO BOTTOM OF CEILING JOISTS OR RAFTERS.
8½" TH. PLAS. ON BRICK UNLESS OTHERWISE NOTED
DEMOUNTABLE PARTITION PAINTED
⬡ INTERIOR ELEVS. SHEET NUM.

ABBREVIATIONS:

A.C.	=	ASPHALTIC CONC.	G.A.T.	=	GREASE-PROOF A.T.
AC.T.	=	ACOUSTIC-TILE	GYP.BD.	=	GYPSUM BOARD
A.T.	=	ASPHALT TILE	NAT.	=	NATURAL
CEM.	=	CEMENT	PLAS.	=	PLASTER
CLG.	=	CEILING	PTD.	=	PAINTED
C.T.	=	CERAMIC TILE	TERR.	=	TERRAZZO
F.F.	=	FACTORY FINISH	WSCT.	=	WAINSCOT
F.F.E.	=	FACTORY FINISH ENAMEL	E.J.		EXPANSION JOINT
C.M.	=	CEMENT MARKING			

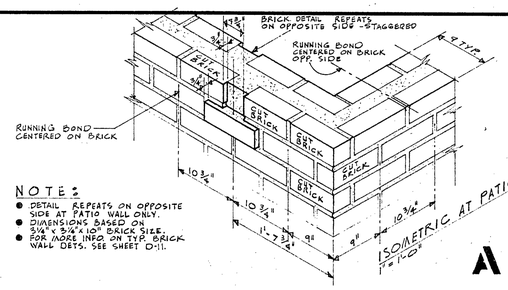
UNIT	No.	ROOM NAME	FLOOR		WALLS		WAINSCOT		CEILING			REMARKS
			MATERIAL	BASE	MATERIAL	FIN.	MATERIAL	FIN.	MATERIAL	FIN.	HEIGHT	
C3	1	CLASSROOM	A.T.	VINYL	HARDBD. PLAS. BRICK	PTD. NAT.	— —	— —	A.C.T.	F.F.	10'-6"	
	2	CLASSROOM	A.T.	VINYL	HARDBD. PLAS. BRICK	PTD. NAT.	— —	— —	A.C.T.	F.F.	10'-6"	
	3	CLASSROOM	A.T.	VINYL	HARDBD. PLAS. BRICK	PTD. NAT.	— —	— —	A.C.T.	F.F.	10'-6"	
	4	CLASSROOM	A.T.	VINYL	HARDBD. PLAS. BRICK	PTD. NAT.	— —	— —	A.C.T.	F.F.	10'-6"	
	5	GIRL'S TOILET	C.T.	C.T.	PLAS.	PTD	C.T.	F.F.	PLAS.	PTD.	10'-6"	✱ ⅞" PLAS. PTD. OVER BRICK
	6	CUSTODIAN & EQUIPMENT STOR.	CEM.	VINYL	PLAS. BRICK	PTD. NAT.	— —	— —	PLAS.	PTD.	10'-6"	
C4	1	BOY'S TOILET	C.T.	C.T.	PLAS. ✱	PTD	C.T.	F.F.	PLAS.	PTD.	10'-6"	✱ ⅞" PLAS. PTD. OVER BRICK
	2	CUSTODIAN	CEM.	VINYL	PLAS. BRICK	PTD. NAT.	— —	— —	PLAS.	PTD.	10'-6"	
	3	HEATER ROOM	CEM.	✱	PLAS. BRICK	—	— —	— —	PLAS.	—	10'-6"	✱ CEM. PLAS. BASE AT TWO WALLS
	4	CLASSROOM	A.T.	VINYL	HARDBD. PLAS. BRICK	PTD. NAT.	— —	— —	AC. T.	F.F.	10'-6"	
	5	CLASSROOM	A.T.	VINYL	HARDBD. PLAS. BRICK	PTD. NAT.	— —	— —	AC. T.	F.F.	10'-6"	
	6	CLASSROOM	A.T.	VINYL	HARDBD. PLAS. BRICK	PTD. NAT.	— —	— —	AC. T.	F.F.	10'-6"	



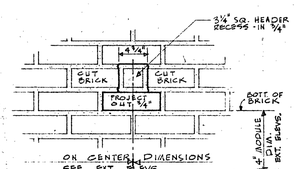
APPROVED: Lee B. Kline ARCHITECT	APPROVED: 22220 APPL. NO. MAR 23 1962 DATE — STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE — PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 816 W. 5th STREET MA 8-8748 LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/23/62 — DRAWN BY — DRAWING NO. 6 of 52

C3 - C4

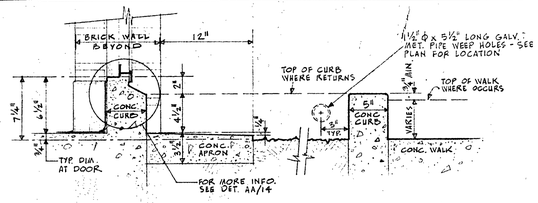


NOTE:
- DETAIL REPEATS ON OPPOSITE SIDE AT PATIO WALL ONLY.
- DIMENSIONS BASED ON 5 1/4" x 2 1/4" x 10" BRICK SIZE.
- FOR MORE INFO. ON TYP. BRICK WALL DETS. SEE SHEET D-11.

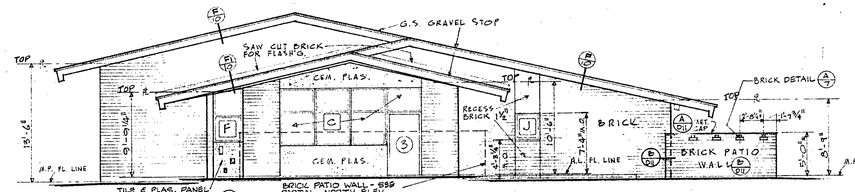


WALL ELEVATION AT BUILDING
1" = 1'-0"

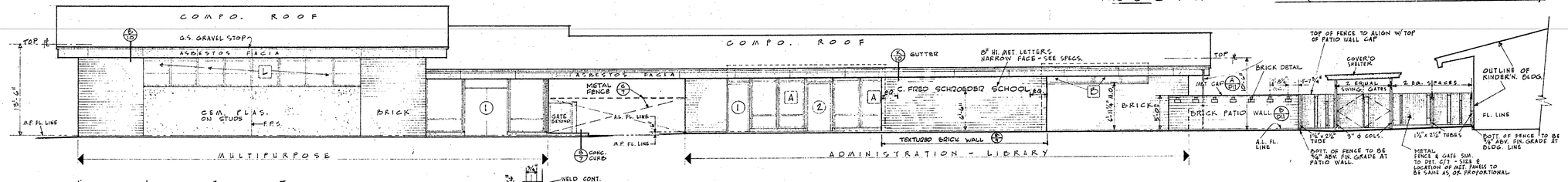
A BRICK DESIGN



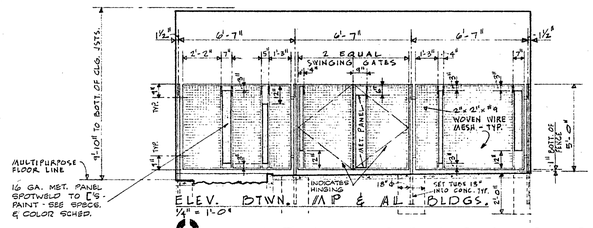
B CONCRETE CURB AT M.P. PLANTER
1 1/2" = 1'-0"

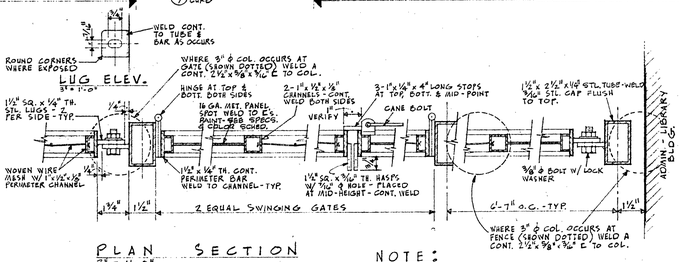


NORTH (MULTIPURPOSE + ADMINISTRATION - LIBRARY)



EAST

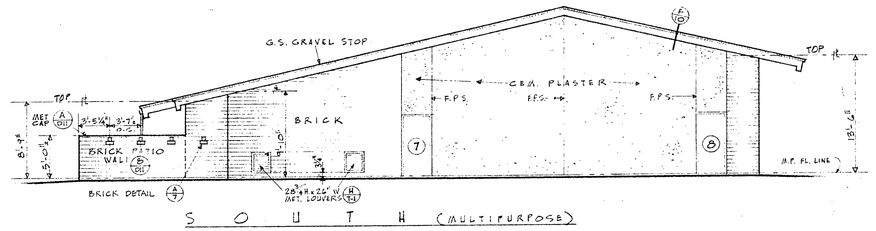




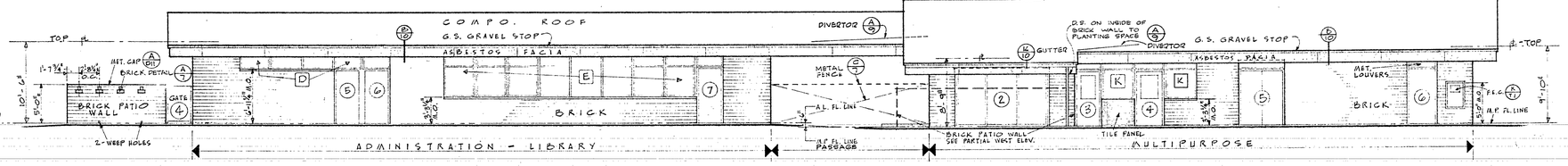
PLAN SECTION
3" = 1'-0"

NOTE:
- ENTIRE FENCE, GATES, POSTS, ETC. TO BE GALV. AFTER FABRICATION - ALSO USE GALV. BOLTS, WASHERS, NUTS, ETC.
- PAINT PANELS - SEE SPECS.

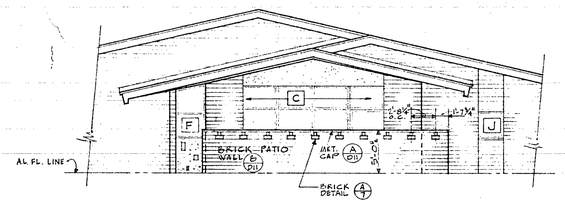
C METAL FENCE & GATE DETS.



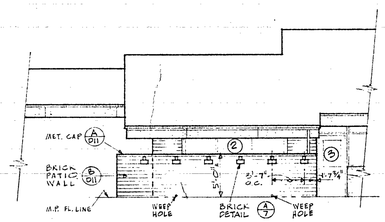
SOUTH (MULTIPURPOSE)



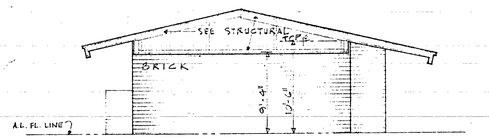
WEST



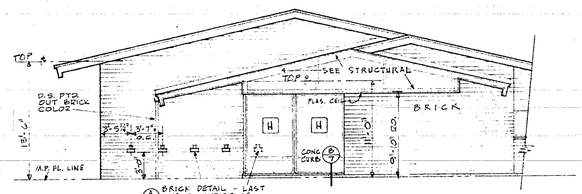
PARTIAL NORTH ELEV.
LIBRARY PATIO
ADMIN.- LIBRARY BLDG.



PARTIAL WEST ELEV.
TEACH'RS. DINING PATIO
AT MULTIPURPOSE BLDG.



NORTH PASSAGE SECTION

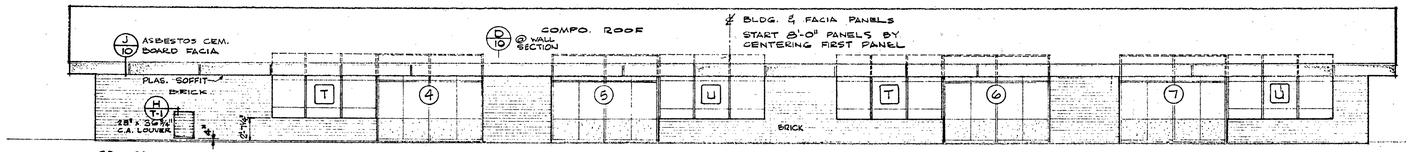


SOUTH PASSAGE SECTION

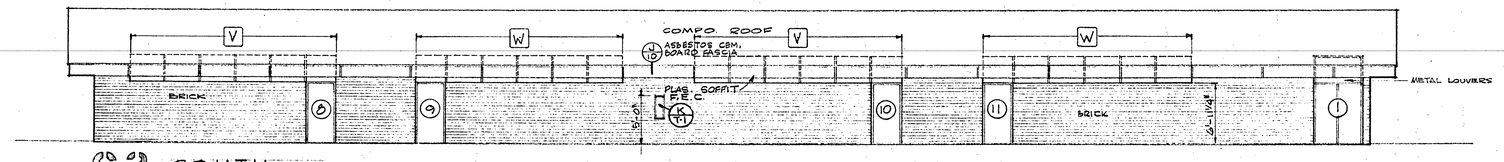
MULTIPURPOSE BLDG. MP -- ADMIN. LIBRARY BLDG. AL

SCALE 1/8" = 1'-0"

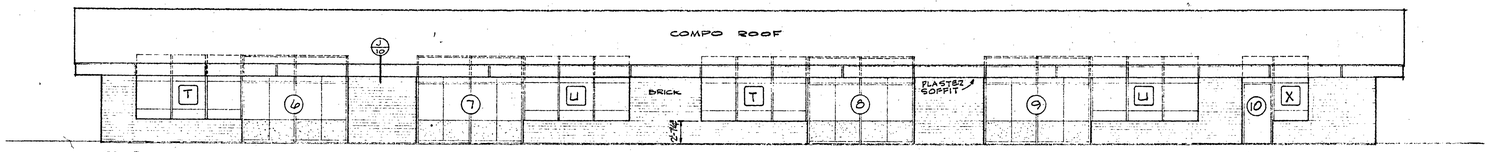
APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE — APPL. NO. 22320 — DATE MAR 28 1962 — PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT — COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS — 815 W. 5th STREET MA 4-8748 — LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. — 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241 — DATE OF DRAWING 5/23/62 — DRAWN BY BAL — DRAWING NO. 7 OF 52



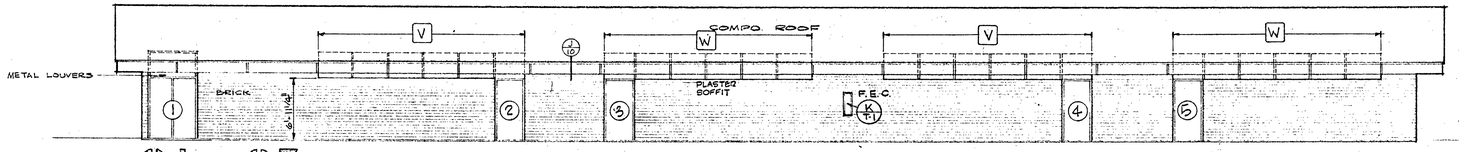
C2 NORTH



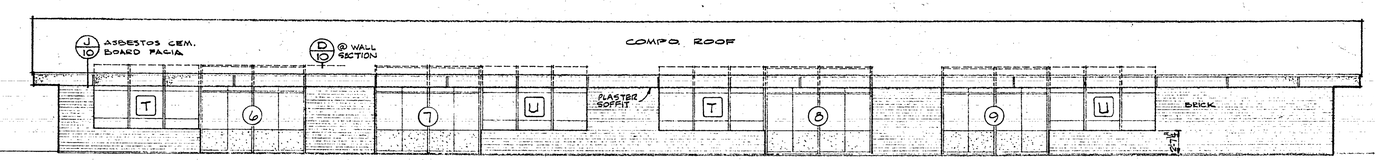
C2 SOUTH



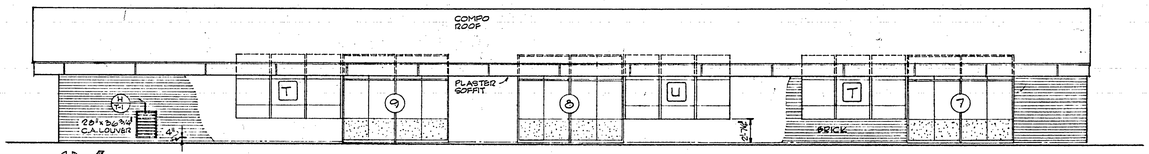
C1 NORTH



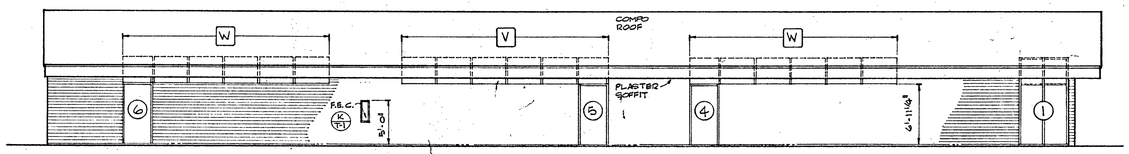
C1 C3 SOUTH



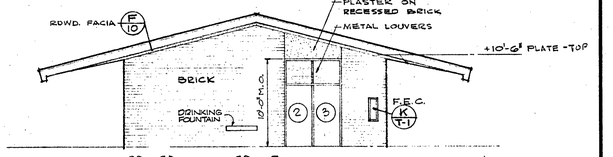
C3 NORTH



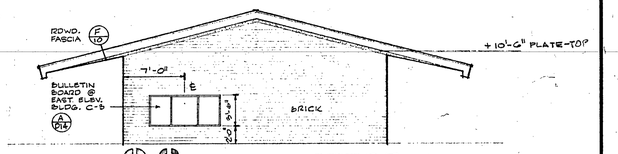
C4 NORTH



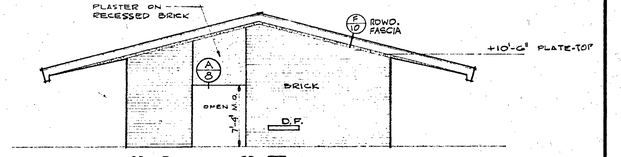
C4 SOUTH



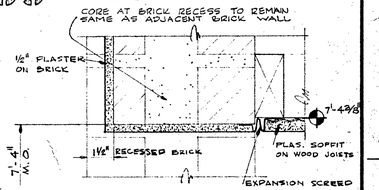
C2 C4 EAST



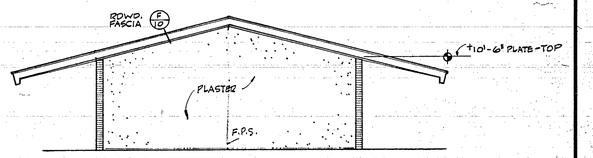
C2 C1 C3 WEST EAST



C1 C3 WEST



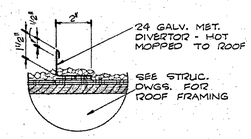
A1 BRICK HEAD DETAIL
3" = 1'-0"



C4 WEST

GENERAL NOTE:
SEE FLOOR & ROOF PLANS FOR LOCATION OF GRAVITY VENTS.

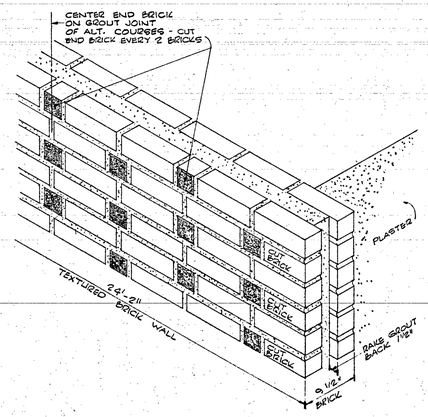
APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE 22220 MAR 28 1962 DATE / PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 816 W. 5th STREET MA 4-8768 LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 3/28/62	DRAWING NO. 8 OF 52



DIVERTOR
SCALE - 3/4"=1'-0"

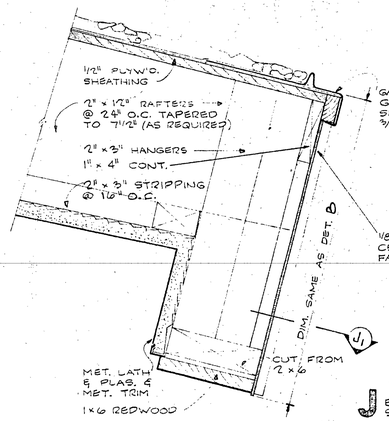
ROOF PLAN
SCALE - 1" = 20'-0"

NORTH

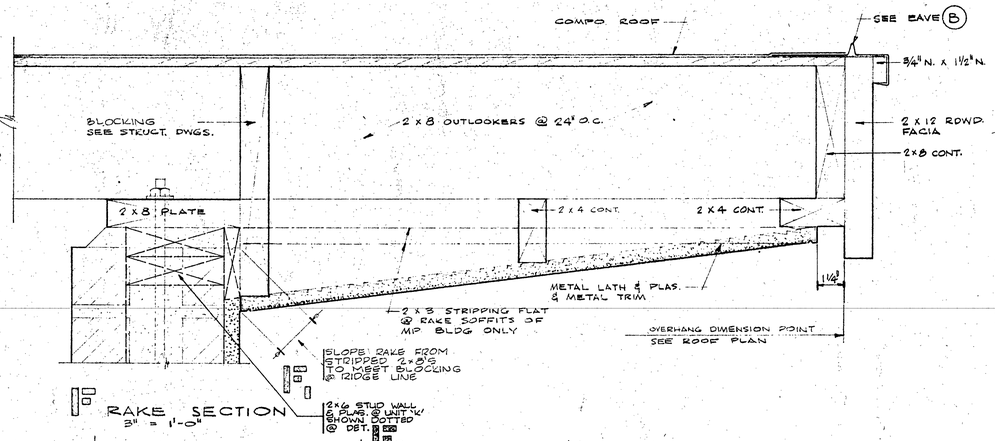


13 TEXTURED BRICK WALL
NO SCALE

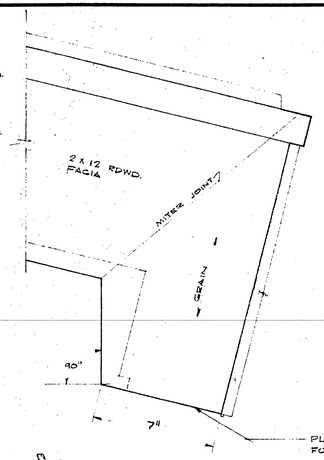
APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE; APPL. NO. 22220; DATE MAR 28 1962; PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT; COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS; 816 W. 5th STREET MA 4-8748; LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A.; 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 4/28/62; DRAWN BY McNEILL	DRAWING NO. 9 OF 52



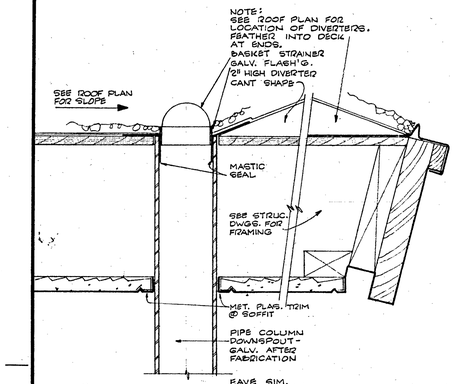
J EAVE SECTION

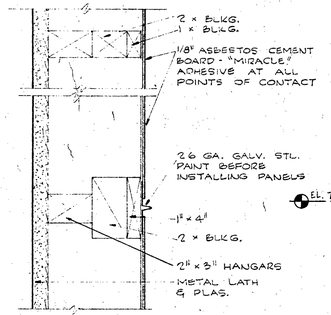


RAKE SECTION
3" = 1'-0"

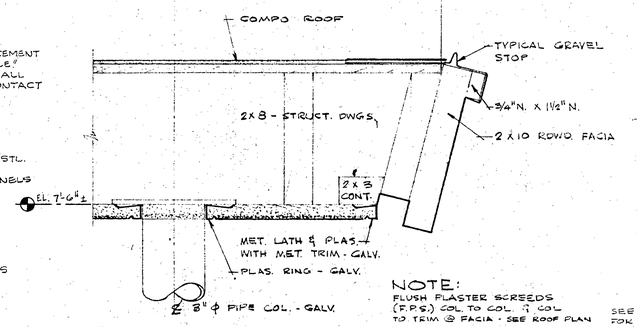


A END ELEVATION OF RAKE
3" = 1'-0"



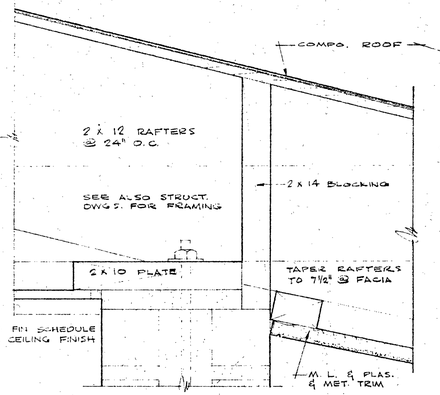


PLAN SECTION J1

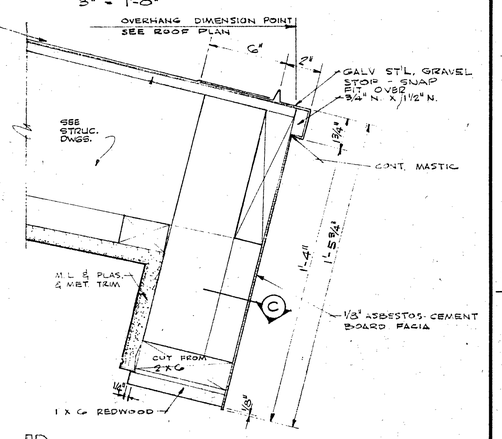


NOTE:
FLUSH PLASTER SCREEDS (F.P.S.) COL. TO COL. & COL. TO TRIM @ FACIA - SEE ROOF PLAN

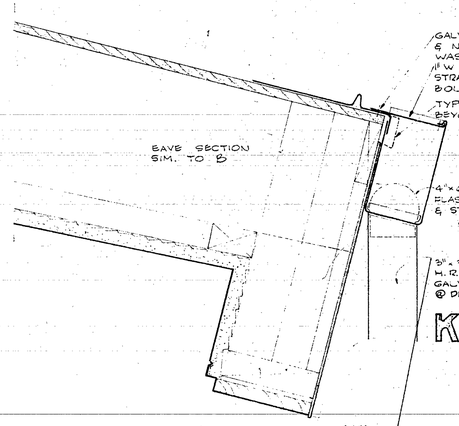
SEE FIN. SCHEDULE FOR CEILING FINISH



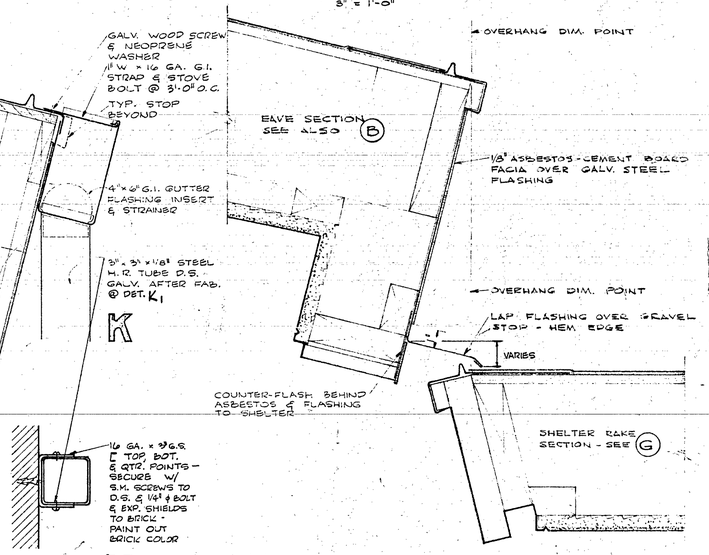
D WALL SECTION
3" = 1'-0"



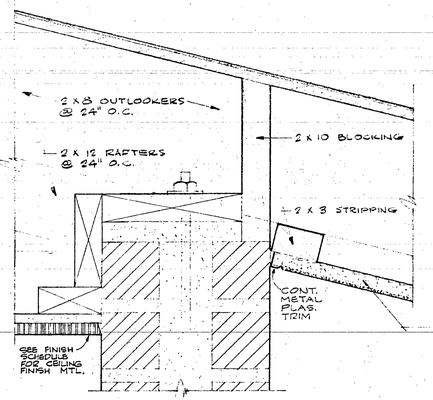
B EAVE SECTION
3" = 1'-0"



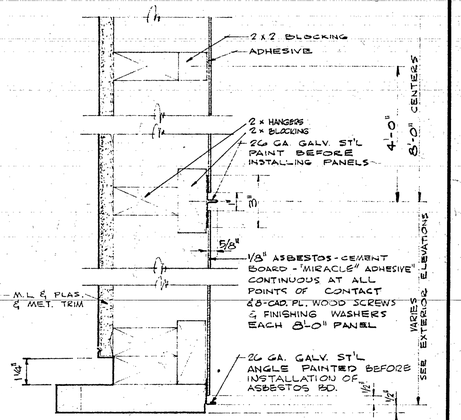
K



H INTERSECTION OF MP. EAVE & SHELTER RAKE
3" = 1'-0"



E WALL SECTION
3" = 1'-0"



C EAVE PLAN SECTION
3" = 1'-0"

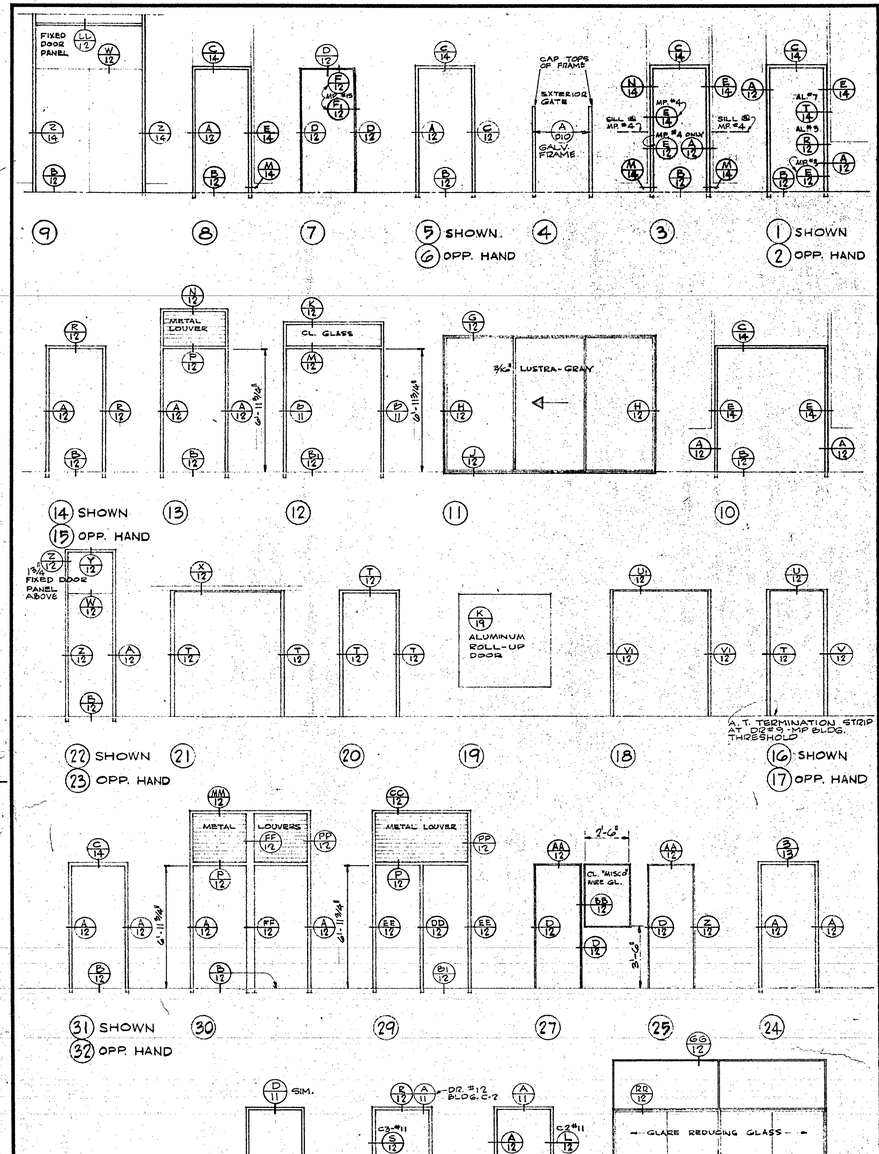
G SHELTER - EAVE SECTION
RAKE SIMILAR - OVERHANG VARIES
3" = 1'-0"

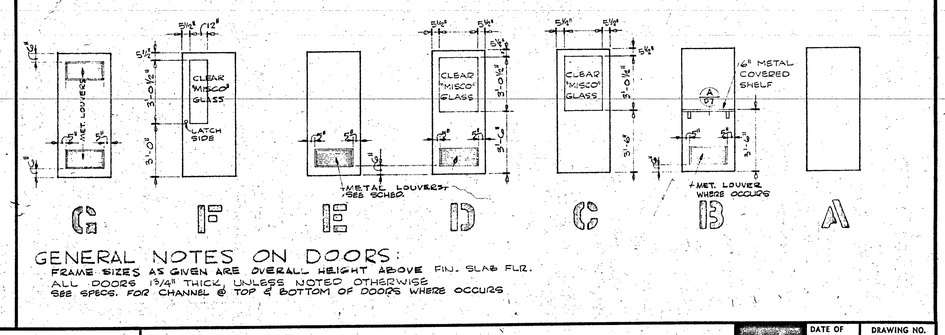
APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE — APPL. NO. — DATE — PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT — COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 616 W. 5th STREET, MA 4-8748 LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241 — DATE OF DRAWING 3/28/62 — DRAWN BY — DRAWING NO. 10 of 52

DOOR SCHEDULE

UNIT	DOOR NUMBER	DOOR TYPE	DOOR SIZE	FRAME TYPE	FRAME SIZE	LOUVER SIZE	REMARKS
C2	1	A	PAIR 2'-6" x 6'-11 3/4"	29	5'-2" x 9'-8 7/8"	LOUVER OVER DOOR	
	2	A	3'-0" x 7'-0"	30	6'-5 1/2" x 9'-10"	LOUVER OVER DOOR	
	3	A	3'-0 x 7'-0"	30	6'-5 1/2" x 9'-10"	LOUVER OVER DOOR	CLASS "E" LABEL ASSEMBLY
	4	–	SEE FRAME SIZE	33	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	5	–	SEE FRAME SIZE	34	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	6	–	SEE FRAME SIZE	35	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	7	–	SEE FRAME SIZE	36	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	8	A	3'-0" x 7'-0"	31	3'-0" x 6'-11 3/4"	———	
	9	A	3'-0" x 7'-0"	32	3'-0" x 6'-11 3/4"	———	
	10	A	3'-0" x 7'-0"	31	3'-0" x 6'-11 3/4"	———	
	11	A	3'-0" x 7'-0"	32	3'-0" x 6'-11 3/4"	———	
C1	1	A	PAIR 2'-6" x 6'-11 3/4"	29	5'-2" x 9'-8 7/8"	LOUVER OVER DOOR	
	2	A	3'-0" x 7'-0"	31	3'-0" x 6'-11 3/4"	———	
	3	A	3'-0" x 7'-0"	32	3'-0" x 6'-11 3/4"	———	
	4	A	3'-0" x 7'-0"	31	3'-0" x 6'-11 3/4"	———	
	5	A	3'-0" x 7'-0"	32	3'-0" x 6'-11 3/4"	———	
	6	–	SEE FRAME SIZE	33	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	7	–	SEE FRAME SIZE	34	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	8	–	SEE FRAME SIZE	33	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	9	–	SEE FRAME SIZE	34	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	10	A	3'-0" x 7'-0"	1	3'-0" x 6'-11 3/4"	———	
	11	G	3'-0" x 6'-11 1/4"	35	3'-0" x 6'-11 3/4"	26" x 10"	
	12	A	3'-0" x 6'-11 1/4"	36	3'-0" x 6'-11 3/4"	———	
C3	1	A	PAIR 2'-6" x 6'-11 3/4"	29	5'-2" x 9'-8 7/8"	LOUVER OVER DOOR	
	2	A	3'-0" x 7'-0"	31	3'-0" x 6'-11 3/4"	———	
	3	A	3'-0" x 7'-0"	32	3'-0" x 6'-11 3/4"	———	
	4	A	3'-0" x 7'-0"	31	3'-0" x 6'-11 3/4"	———	
	5	A	3'-0" x 7'-0"	32	3'-0" x 6'-11 3/4"	———	
	6	–	SEE FRAME SIZE	33	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	7	–	SEE FRAME SIZE	34	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	8	–	SEE FRAME SIZE	33	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	9	–	SEE FRAME SIZE	34	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPEC'S
	10	B	3'-0" x 6'-11 1/4	35	3'-0" x 6'-11 3/4"	26" x 10"	
	11	A	3'-0" x 6'-11 1/4"	36	3'-0" x 6'-11 3/4"	———	
C4	1	A	PAIR 2'-6" x 6'-11 3/4"	29	5'-2" x 9'-8 7/8"	LOUVER OVER DOOR	
	2	A	3'-0" x 7'-0"	30	6'-5 1/2" x 9'-10"	LOUVER OVER DOOR	
	3	A	3'-0" x 7'-0"	30	6'-5 1/2" x 9'-10"	LOUVER OVER DOOR	CLASS "E" LABEL ASSEMBLY
	4	A	3'-0" x 7'-0"	32	3'-0" x 6'-11 3/4"	———	
	5	A	3'-0" x 7'-0"	31	3'-0" x 6'-11 3/4"	———	
	6	A	3'-0" x 7'-0"	32	3'-0" x 6'-11 3/4"	———	
	7	–	SEE FRAME SIZE	33	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPECS.
	8	–	SEE FRAME SIZE	34	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPECS.
	9	–	SEE FRAME SIZE	35	11'-11 1/2" x 7'-0 3/8"	———	ARCADIA - SEE SPECS.

UNIT	DOOR NUMBER	DOOR TYPE	DOOR SIZE	FRAME TYPE	FRAME SIZE	LOUVER SIZE	REMARKS
AL	1	A	3'-0" x 7'-0"	8	3'-0" x 6'-11 3/4"	———	
	2	A	3'-4" x 7'-0"	3	3'-4" x 6'-11 3/4"	———	
	3	A	3'-6" x 7'-0"	2	3'-6" x 6'-11 3/4"	———	
	4	A	3'-0" x 4'-7"	4	3'-0" x 4'-10"	———	EXTERIOR GATE - SEE A/D10
	5	A	3'-0" x 7'-0"	5	3'-0" x 6'-11 3/4"	———	
	6	A	3'-0" x 7'-0"	6	3'-0" x 6'-11 3/4"	———	
	7	A	3'-0" x 7'-0"	2	3'-0" x 6'-11 3/4"	———	
	8	A	2'-4" x 7'-0"	7		———	UNDER CUT DOOR 1"
	9	A	2'-6" x 7'-0"	7		———	UNDER CUT DOOR 1"
	10	F	2'-6" x 7'-0"	7		———	1" N. HEAD PIECE
	11	F	2'-6" x 7'-0"	7		———	
	12	A	2'-6" x 7'-0"	7		———	
	13	A	3'-0" x 7'-0"	7		———	
	14	F	2'-6" x 7'-0"	7		———	
	15	A	2'-4" x 7'-0"	7		———	UNDER CUT DOOR 1"
	16	A	3'-0" x 7'-0"	7		———	
	17	B	2'-8" x 7'-0"	7		22" x 10"	
	18	G	2'-6" x 7'-0"	7		20" x 10"	TOP & BOTTOM
	19	A	2'-8" x 7'-0"	7		———	
	20	A	2'-4" x 7'-0"	7		———	UNDER CUT DOOR 1"
			FOR ACCESS DOOR (1'-6" x 2'-6") SEE DET. C/D20				
			& INT. ELEVS. SHT. #17				
M1	1	A	PAIR 3'-0" x 7'-0"	9	SEE DOOR SIZE	———	PANIC HDWE. FIXED 19 3/8" TH. PANEL ABOVE
	2	–	SEE FRAME SIZE	11	11'-1 1/16" x 7'-9 3/4"	———	ARCADIA - SEE SPECS. PROVIDE SCREEN
	3	C	3'-0" x 7'-0"	1	3'-0" x 6'-11 3/4"	———	3'-0" x 7'-0" TUBULAR ALUM. FRAME SCREEN DOOR - SEE SPEC'S.
	4	C	3'-6" x 7'-0"	5	3'-6" x 6'-11 3/4"	———	
	5	A	PAIR 2'-8" x 7'-0"	12	5'-4" x 8'-3 1/4"	———	PANIC HDWE.
	6	A	3'-6" x 7'-0"	13	3'-6" x 9'-1"	LOUVER OVER DOOR	CLASS "E" LABLE ASSEMBLY
	7	A	3'-0" x 7'-0"	14	3'-0" x 6'-11 3/4"	———	PANIC HDWE.
	8	A	3'-0" x 7'-0"	15	3'-0" x 6'-11 3/4"	———	PANIC HDWE.
	9	A	3'-0" x 7'-1 1/2"	16		———	UNDERCUT DOOR 1"
	10	A	PAIR 2'-8" x 7'-1 1/2"	18		———	PANIC HDWE.
	11	E	2'-8" x 7'-0"	7		22" x 10"	
	12	—	5'-2" x 4'-5" ±	19		———	ROLL-UP DOOR - SEE SPECS
	13	A	3'-0" x 7'-1 1/2"	20		———	
	14	A	3'-0" x 7'-1 1/2"	17		———	
	15	A	3'-0" x 7'-1 1/2"	7		———	
	16	E	2'-6" x 7'-0"	7		20" x 12"	
	17	E	2'-6" x 7'-0"	7		20" x 12"	
	18	A	PAIR 3'-0" x 7'-1 1/2"	21		———	PANIC HDWE.
	19	A	3'-0" x 4'-7"	4	3'-0" x 4'-10"	———	EXTERIOR GATE - SEE A/D10
K	1	A	PAIR 3'-0" x 7'-0"	10	6'-0" x 6'-11 3/4"	———	
	2	E	2'-6" x 7'-0"	22	2'-6" x 9'-8 7/8"	20" x 10"	
	3	A	3'-0" x 7'-0"	37	3'-0" x 6'-11 3/4"	———	
	4	-	OMIT				
	5	-	OMIT				
	6	E	3'-0" x 7'-0"	13	3'-0" x 9'-8 7/8"	26" x 12"	LOUVER OVER DOOR
	7	A	3'-0" x 7'-0"	24	3'-0" x 6'-11 3/4"	———	CLASS "E" LABEL ASSEMBLY
	8	A	2'-6" x 7'-0"	25		———	
	9	D	2'-6" x 7'-0"	27		20 x 8	





GENERAL NOTES ON DOORS:

FRAME SIZES AS GIVEN ARE OVERALL HEIGHT ABOVE FIN. SLAB FLR.
ALL DOORS 1 3/4" THICK UNLESS NOTED OTHERWISE
SEE SPECS. FOR CHANNEL @ TOP & BOTTOM OF DOORS WHERE OCCURS

APPROVED: _____ ARCHITECT
_____ ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
22-20
MAR 28 1962 DATE
PRINCIPAL STRUCTURAL ENGINEER

APPROVED: FOR THE DISTRICT
F. W. Eastwood
John F. Lloyd Jr.

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
816 W. 5th STREET MA 4 8748
LOS ANGELES 17, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 5/28/62
DRAWN BY
DRAWING NO. 11 OF 52

END OF BRICK WALL AS REQUIRED ABOVE WING WALL WITH PLAS. & MET. PLAG. TRIM TO MET. FRAME

SEE DET. 'A'

3/4" TO TOILET ROOMS

TYPICAL MET. DOOR FRAME

CERAMIC TILE WING WALL OR WAINSCOT AS REQUIRED SEE PLAN & SCHEDULE

JAMB

DOOR DIM.

16 GA. METAL DOOR FRAME - SEE TYPICAL (A)

INTERIOR PLASTER & METAL TRIM

16 GA. STIFFENER LOUVER ABOVE

MULLION

TOP OF PLATE

2 x 3 STRIPPG. @ 16" O.C. PLAS. & MET. PLAG. TRIM

CONT. BLKG.

20 GA. ALUM. DRIP BY DOOR MFG.

COPE 'Z' SECTION AROUND BEAM @ COL. (HH) SEE DET. (T)

1/2" TH. ACT. ON 2 x 3 STRIPPG.

2" W. x 11" WOOD BLOCK CUT BTWN. COLS.

2" x 3" COL.

HEAD

WINDOW DIM.

1/8" ALUM. 1/2" SECTION - #8 S.T. SCREWS @ 18" O.C. - SHEAR WITH LEGS @ BRICK SILL BELOW - COPE @ HEAD TO BEAM

2" x 2" TUBE MULLION

CONTINUOUS 3/4" x 3/4" x 1/8" ALUM. ∠ = Ø S.T. SCREWS @ 18" O.C. TO MULLION

NOTE: ALL ASSEMBLY SCREWS TO BE CADMIUM PLATED

HH JAMB

ACOUSTIC PLAS. & MET. PLAS. TRIM

1/2" TH. WOOD FILLER CONT.

3/8" HDWD. PLYWD. CLG. PANELS ABOVE DOOR

STRIPPING STUDS @ 16" O.C. BOLT AT BRICK WALLS

ACOUSTIC TILE ON STRIPPING

EXIT SIGN SLOT DETAIL (F1/19) (F2/19)

SEE ALSO (T)

DOOR DIM. 2 1/2"

"V" JOINT

FILLER PIECE @ DOOR WITH 3/8" Ø DOWELS

3/8" N. x 3" N. WD. TRIM

X HEAD

WOOD TRIM CONT. FROM WINDOW HEAD RABBET BACK TO COVER DOOR FRAME

6 x 6 BEAM

TYPICAL MET. DOOR FRAME

EXTERIOR FACE OF BRICK WALL

FIXED TRANSOM PANEL

Y HEAD

WINDOW DIM.

20 GA. METAL COVER

3/8" N. x 2 1/8" N. WOOD TRIM.

20 GA. METAL COVER

4 x 4

SEE ALSO (D)

TYPICAL MET. DOOR FRAME

DOOR DIM.

INT. PLAS. & MET. TRIM

1/2"

INSIDE FACE OF BRICK WALL

Z MULLION

PLASTER RETURN @ DOOR #9 - UNIT 'K'

7'-3" SD. CLG. @ KIND. BLDG.

7'-1 1/2"

SUSPENDED CL'G @ STORAGE ROOM PLASTER & METAL TRIM

FURRED SOFFIT @ KINDERGARTEN AC. TILE

1" N. x 3 5/8" N. SEE ALSO (D)

AA HEAD

TRANSOM HEIGHT

TRANSOM SECTION

3/4" x 3/4" ALUM. L ANCHOR TO COL. & HEAD SECTION

HEAD SECTION (DOOR) F.O.B.

DOOR DIM.

12'-0" M.O.

12'-0" MASONRY OP'G

1/2" N. x 1 1/2" N. GLASS STOPS

3/4" N. x 3 5/8" N.

LINE OF PLAS. BELOW

5/8" TH. WOOD TRIM

SEE ALSO (D)

PP

BB MULLION

2 x 4 CL'G. JOISTS @ 16" O.C.

10'-0" BOT. CL'G. JTS.

7 1/8"

INTERIOR PLASTER & METAL TRIM

TYPICAL MET. DOOR FRAME

EXTERIOR PLASTER & METAL TRIM

SEE ALSO (N)

CC HEAD

1/2" PLAS. & METAL TRIM

8" BRICK HEAD

CUT BRICK

SUPERIOR NO. 10 SCREED

TYPICAL MET. DOOR FRAME

EXT. FACE

1 1/2"

SEE DET. 'A'

TYP. MET. DR. FRAMES

SEE ALSO (N)

24 GA. MET. LOUVER FRAME SECURE W/ SHEET MET. SCREWS

10'-0" MASONRY OP'G

MM HEAD

KK JAMB

FRAME DIM.

1/8" ALUM. ∠ SECTION CONT. VERT. CAULKING BEHIND BY INSTALLER

DOOR DIM.

16 GA. METAL DOOR FRAME - SEE TYPICAL (A)

5 1/2"

DD MULLION

LOUVER

LOUVER DIM.

EQ. SPACES

24 GA. METAL LOUVER & FRAME

INSECT SCREEN REMOVABLE TUBULAR FRAME

16 GA. METAL DOOR FRAME

P TRANSOM BAR

EXTERIOR PLASTER & METAL TRIM.

DR. FRAME FLANGE

CONT. DRIP @ HEAD

CONT. MASTIC

2 x 6 STUDS

INTERIOR PLASTER & METAL TRIM

2" x 3" TUBE MULLION @ DOOR # AL-3 ONLY - SEE STRUC. DWGS. M.B.C.

TYPICAL MET. DOOR FRAME

D HEAD OR JAMB

1/4" TILE & GROUT

CARRY MET. LATH TO DOOR FRAME

TYPICAL METAL DOOR FRAME

SEE DET. 'A'

S JAMB

3/4" @ HINGE SIDE

1/2" Ø BOLTS @ 3'-0" O.C.

1/2" TH. WOOD FILLER & PLAS. SOFFIT @ HEAD OF DOOR # MP-15

3/8" N. x 2" N. HDWD.

3/4" N. x 5 1/2" N. HDWD.

1/2" N. x 1 1/2" N. HDWD. WOOD STOP

7'-1/4" MASONRY OP'G

DOOR DIM. 2 1/2"

7'-1 7/8"

T HEAD OR JAMB (TYPICAL FRAME)

ACOUSTIC TILE WITH PLASTIC EDGE ON 1 x 3 STRIPPG. @ DET. (U1)

VARIES WITH JAMB SETTING

8 1/4"

SEE ALSO (N/19)

2 WD. FURR'G.

"V" JOINT WOOD TRIM FILLER PIECE @ DOOR WITH 3/8" Ø DOWELS

HDWD.

SEE ALSO (T)

7'-1/4" M.O.

DOOR DIM. 7'-1 1/8"

U1 SIM. JAMB LINES WITH BRICK

U HEAD

F.O.S.

SEE ALSO REFERENCE NOTES & DETAILS (N/19)

PLAS. & MET. PLAS. TRIM @ (V1)

V1 SIM - JAMB LINES WITH BRICK

SEE ALSO (T)

NOTE: AT DOORS 9, 10, 14 & 18 M.P. BLDG. DR. FRAMES SHALL BE 8INCH HDWD. TO MATCH DOOR #6 - SEE SPECS.

V - V1 JAMB

TRANSOM PANEL TO MATCH SLAB DOOR FIXED TO FRAME

NOTE: SUSPENDED CL'G @ DOORS # K-2 & K-3 ONLY

METAL DOOR FRAME

DOOR DIM.

W PANEL JOINT

EXTERIOR PLASTER & MET. TRIM.

7'-10"

6 x 10 BEAM

HARDWOOD

ALUM. DRIP BY DOOR MFR. CONT. MASTIC APPLICATION BY INSTALLER

FRAME DIM. 7 3/4"

13/4" 5 3/8"

G HEAD

1 3/4"

5/8" x 5/8" x 1/8" ALUM ∠'S SET IN MASTIC BED BY DOOR MFG.

1/8" x 3/4" FLAT ALUM BAR SCREW TO DOOR FRAME

11'-11 1/2" FRAME DIM.

1 1/4"

H JAMB

"CAMED" PANELS OR GLASS WHERE OCCURS SEE FRAME ELEVS.

FRAME DIM.

FLOOR COVERING

CONT. MASTIC APPLICATION BY DOOR INSTALLER

J SILL

2 x 4 CL'G. JOISTS

8'-6"

EXTERIOR PLASTER & MET. PLAS. TRIM

TYPICAL MET. DOOR FRAME

5/8" ACOUSTIC TILE ON 5/8" GYPBOARD

GLASS STOP BY FRAME MFG. - DRILL & CSK FOR O.H.M.S. BACK PUTTY SET GLASS IN MASTIC OR GLAZING IN FELT

K HEAD

MAT. DR. FR. BLDG. MP 2 x 4 PLAS. & MET PLAS. TRIM

SEE DET 'A'

TYPICAL MET. DOOR FRAME

INTERIOR PLASTER

GLASS & STOP SIM. TO DET (K) WHERE OCCURS

L JAMB

GLASS STOP

16 GA. METAL DOOR FRAME

DOOR DIM.

CONDUIT - SEE ELEC. DWGS.

EXIT SIGN OVER DOOR SHOWN DOTTED - SECURE TO TRANSOM BAR W/ 2" x 1/4" x 5" LG. ∠'S & S.M. SCREWS SEE ELEC. DWGS.

M TRANSOM BAR

SUPERIOR NO. 10 PLAS. SCREED

6 x 6 BEAM

1/4" HARDBOARD

TYPICAL MET. DOOR FRAME

LOUVER DIM.

INSECT SCREEN REMOVABLE TUBULAR FRAME

24 GA. METAL LOUVER & FRAME SECURE W/ SHEET METAL SCREWS

3 1/2"

N HEAD

OUTSIDE FACE OF BRICK

EXTEND HORIZ. STEEL INTO DR. FRAME 1" - FILL FRAME W/ GROUT

PLAS. WHERE OCCURS

16 GA. METAL DOOR FRAMES - TYPICAL

JAMB TYPE RUBBER BUMPERS

DIMENSION "X" TYPICAL - 11/16" AL - 3 - 2"

2" x 1 15/16" x 5/8" x 1 5/16"

5 1/2"

DOOR DIM.

FRAME DIM.

A

FLR. LINE

VERIFY W/ FLR. CHG.

1/8" x 2" BRASS BAR W/ CUP'S TO DOOR FRAME @ EACH JAMB - SEE SPECS. MISC. MTLS. FINISH FLOOR

BOLT 1/2" Ø x 6" LG. DEFORMED BAR @ 20" MAX. CENTERS EXTEND DR. FR. BELOW FLR. AS SHOWN - TRIM AS REQ'D. FOR FLR. CHECK BOTTOM OF FRAME

WELD FLOOR CHECK TO BENT PL & DR. FRAME

10 GA. BENT PL BY MET. DR. FRAME MFG.

CER. TILE OR A.T. FLR.

CEM. FLR.

B THRESHOLD

5/8" Ø BOLTS @ 9" O.C. BEND FOR ANCHORS

B1 THRESHOLD

2" # TUBE MULLION

TYPICAL METAL DOOR FRAMES

20 GA COVER PL. COPE @ DOOR HEAD & RETURN UNDER SASH @ TRANSOM BY DOOR MFG.

INTERIOR PLASTER & METAL TRIM

@ OF STUD PARTITION AND 2" MULLION

CONT. BLKG.

G MULLION

FACE OF STUD

7'-11 1/2"

PLAS., SOFFIT WHERE OCCURS

2 1/2" MIN.

DOOR DIM.

INTERIOR PLASTER & METAL TRIM

PLAS. WITH MET. TRIM & CORNER BEAD ON 2 x 6 STUDS @ DOOR # 16 & # 16 BLDG. - AL

3/4" N. x 3 5/8" N.

1/2" N. x 11/2" N. - AT 7'-11 1/2" HEAD USE 11" N HEAD PIECE

17/8"

D HEAD OR JAMB (TYPICAL FRAME)

5/8" x 1" BAR STOP FOR SCREEN DOOR AT DOOR # MP-5 ONLY

TYPICAL MET. DOOR FRAME

CONT. BLKG.

2" # MET. MULLION

INT. PLASTER & MET. TRIM

BOLT 2 x TO COL.

EXT. FACE OF BRICK

1 1/2" TILE & GROUT 1 9/16" D MOSAIC CERAMIC TILE

JAMB

7'-7"

2 x 8 STRIPPG.

FURRED SOFFIT @ TEACHERS DINING RM.

5/8" N. x 1" N. WOOD TRIM

SEE ALSO (D)

I HEAD

2 1/2"

2 x 4

5/8" N. x 2" N. WOOD TRIM BOTH SIDES

SEE ALSO (D)

JAMB

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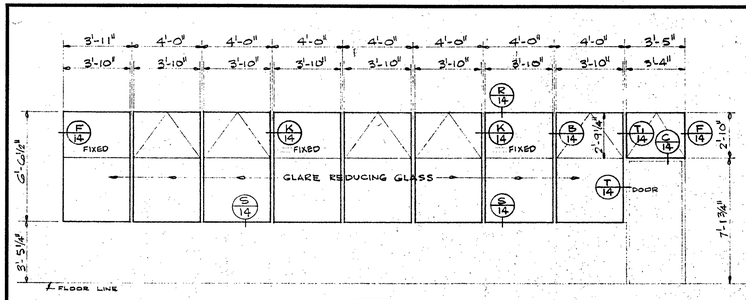

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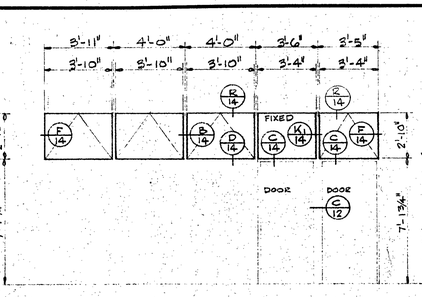

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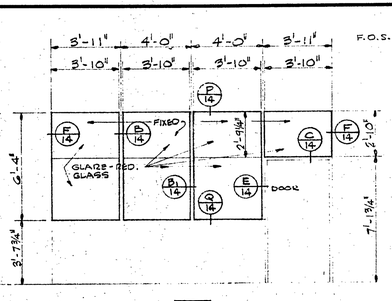

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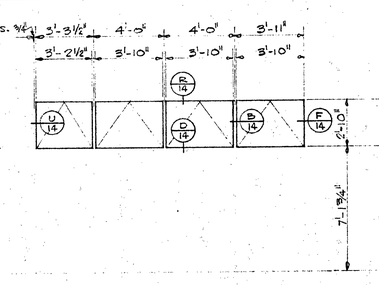

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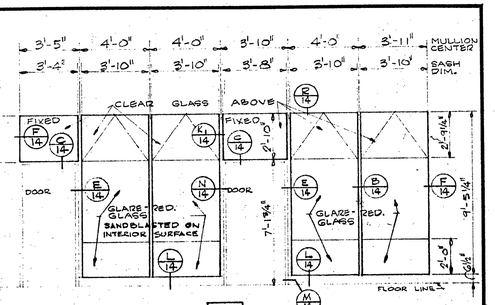

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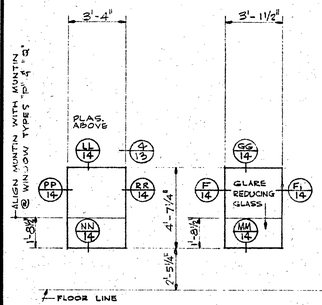
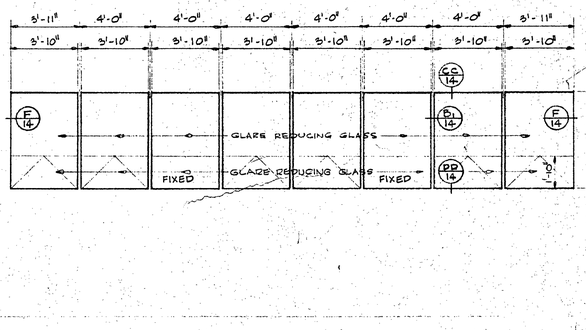
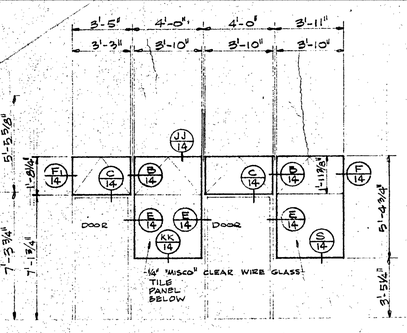


N K

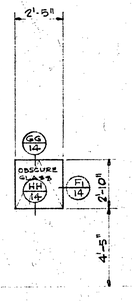
M K



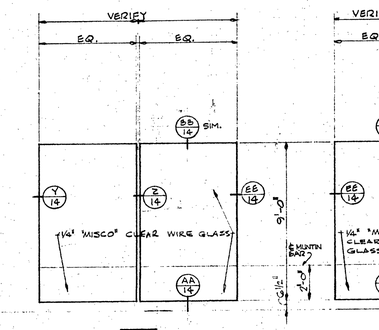
M L SCREEN ALL OPERATING SASH



M K SCREEN ALL OPERATING SASH



M J SCREEN & WICKET OPERATING SASH



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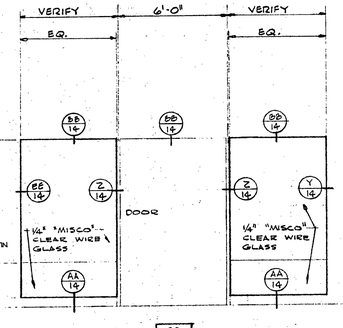

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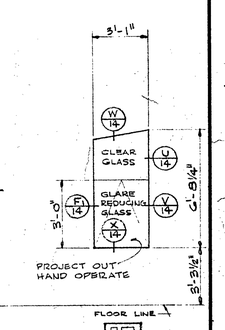

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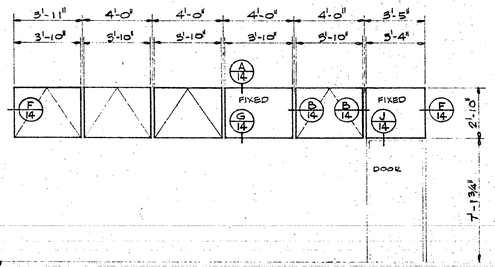
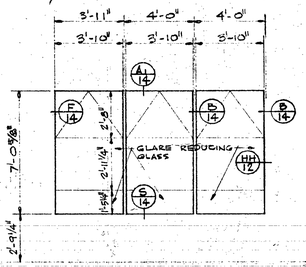
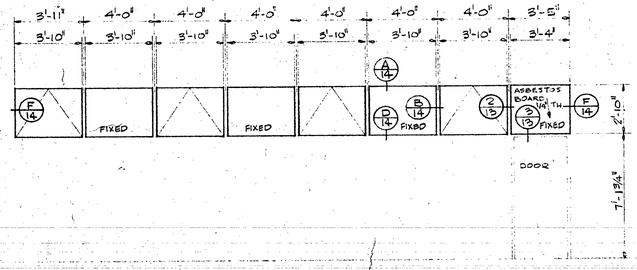
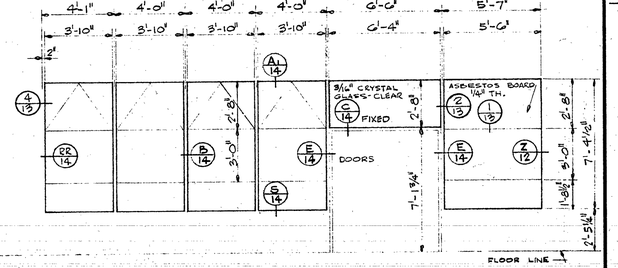




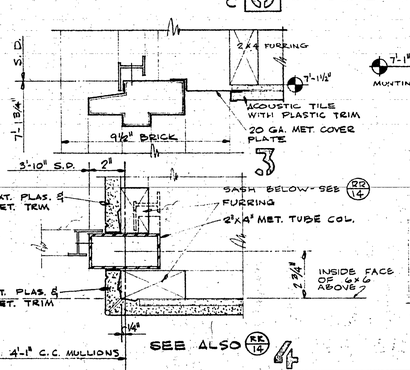




P K

C V AS SHOWN
C IV OPPOSITE HAND

C T AS SHOWN
C U OPPOSITE HAND



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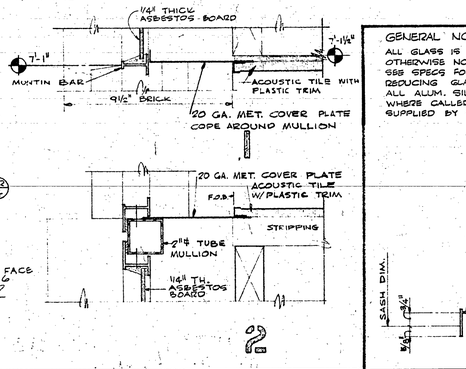
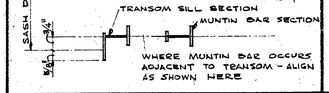


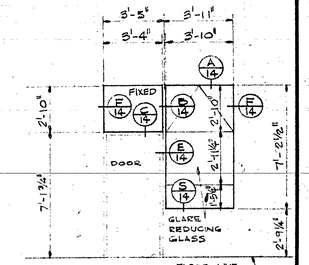
2

5 K

GENERAL NOTES:

ALL GLASS IS CLEAR UNLESS OTHERWISE NOTED.
SEE SPECS FOR GLARE REDUCING GLASS.
ALL ALUM. SILL FLASH'G., ETC., WHERE CALLED FOR, SHALL BE SUPPLIED BY SASH MFG.





X C

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SEE STRUCTURAL DWGS FOR FRAMING DETAILS

TOP OF PL. 9'-12"

12"x3" STRIPPING

M.L. OF PLASTER

11¼" S.D.

5½"

CEILING JOIST 2x3 STRIPPING

5/8" GYP. BOARD

ACOUSTIC TILE

3/8" x 2½" N. TRIM

4"x6" HEADER

METAL TRIM

METAL SASH SET IN MASTIC

1"x2" N. HEAD LINE W/ BACK EDGE OF COL.

JJ

6"x6" S.B.N. CERAMIC TILE SILL - CUT

FACES WITH CUT TILE USE MAT. CEMENT FOR GROUT JOINTS

4'-3¼" S.D.

8"

HH

1½" PLAS. OVER BRICK @ K BLDG.

ALUM. FLASH'G & DRIP BY SASH MFG.

CEILING JOIST

2x3 STRIPPING

PLASTER @ K BLDG

A.C.T. W/PLASTIC TRIM OVER 5/8" GYP. BD.

GG

MET. SASH SET IN MASTIC

ALUM. SILL FLASHING CONT. BY SASH MFG.

4"x6" S.B.N. CERAMIC TILE SILL - CUT

M.C.B.

INT. PLAS.

PLAS. W/ #10 MET. TRIM

KK

1½" TILE & GROUT 1"x1" x ⅜" MOSAIC CERAMIC TILE

3'-5¼" S.D.

2x4

1½"

SEE STRUCT. FOR FRAMING

"ACME" 20-251 W/ 20-040 & 20-042 FIXED GLASS STOPS

BB

7'-1½" BOT. FURRING

SUPERIOR #10 MET. PLAS. TRIM

INT. FURRED PLASTER SOFFIT & METAL TRIM

1"N. x 2"N. WOOD TRIM - TYPICAL

LL

4'-7¼" S.D.

ALUM. SILL FLASHING CONT. SASH MFG.

2"x6" S.B.N. CERAMIC TILE SILL - CUT

M.C.B.

INTERIOR PLASTER

EXT. PLASTER WITH CERAMIC TILE INSERTS

2'-5¼"

MM

NN

FACE OF BRICK @ "NN" ONLY

1" x 2" CHANNEL F.H.M.S. & EXP. SHIELD @ 16" O.C. SET IN MASTIC

PP

ALUM. SILL FLASHING

FACE OF SILL BELOW FACE OF BRICK BELOW

S.D. 2½"

1½" x 1" CHANNEL WELD TO COLUMN - GRIND FACE WELD SMOOTH

2 x 4 METAL TUBE COLUMN

CERAMIC TILE SILL

3'-10" S.D.

2"

4'-1" C.C. TUBE MULLIONS

RR

PURRING

2 x 12 RAFTER

2"x3" STRIPPING OMIT AT GYP. BD.

BLOCKING

2x3 STRIPPING

5/8" GYP. BD. WHERE OCCURS

½" ACOUSTIC TILE

1"N. x 2"N. WOOD TRIM - TYPICAL

S.D. VARIES AS HEAD SLOPES

3'-3½"

LAM. PLASTIC WORK COUNTER & SPLASH

PLAS.

2x STUDS

W

X

040 ALUM. COVER BY SASH MFG. (FLOOR TO HEADER)

3" ϕ POST COVERED W/ PLASTER - USE M.C.B. AT CORNERS

040 ALUM. COVER BY SASH MFG. (FLOOR TO HEADER)

Y

"ACME" 20-251 W/ 20-040 & 20-042 GLASS & DOOR STOPS

2"

FIXED GLASS

F.O.B. @ JAMB

AS SHOWN DOTTED

EE

⅜"x¾" ALUM L CLOSURE BY SASH MFG. W/ MASTIC

TYPICAL 1¾" THICK DOOR SEE DETAIL B/12 FOR THRESHOLD

FIXED GLASS BOTH SIDES AS SHOWN DOTTED (Z1)

Z,Z1 FIXED GLASS BOTH SIDES

"ACME" 20-081 BULKHEAD WITH 20-040 & 20-042 GLASS STOPS set in mastic

FINISH FLOOR

AA

PLAS.

MET. PLAS. TRIM SUPERIOR #10

BOT. STRIPPING 10'-0¾"

5'-4" S.D.

½" ACOUSTIC TILE

1"N x 3"N. WOOD BLOCK BETWEEN 2"x3" MULLIONS

P

SASH SET IN MASTIC

WOOD SILL

ALUM. SILL FLASHING CONT. & CLOSE EXPOSED ENDS

PLAS. & MET. TRIM

2 x 6 STUDS

3"

3'-6¾" ABOVE F.F.

Q

TOP PLATE 10'-0"

2"x3" STRIPPING OMIT AT GYP. BD.

5'-4" S.D.

4"x6"

5/8" GYP BD. WHERE OCCURS

½" ACOUSTIC TILE

WOOD TRIM, CUT FROM 1x3 RDND.

⅜"N. x 7⅛"N. WOOD TRIM CONT.

1"N. x 2"N. WOOD BLOCK BETWEEN MULLIONS

R

6"x6" S.B.N. CERAMIC TILE SILL - CUT

FACE WITH CUT TILE USE MAT. CEMENT FOR GROUT JOINTS

SPLASH & COUNTER WHERE OCCURS ½" LAP ABOVE BRICK

S

SEE DET. E FOR TILE LAYOUT @ CORNER

MASONRY HT. SEE ELEV.

F.H.W.S. CSK. 24" O.C. STARTING WITHIN 3" OF SILL

TILE SILL CAP

18 GA. METAL COVER PLATE CONT. FLOOR TO CEILING COPE AROUND DOOR FRAME & SILL

¾"N. x 2"N. CONT. FLOOR TO CEILING

2"N. x 4"N. ATTACH TO MULLION. CONT. SILL TO CEILING

TYPICAL MET. DOOR FRAME WITH BACK CLOSURES - SEE DETAIL "E"

T AS SHOWN

T1 SYMMETRICAL ABOUT ℄ WITH SASH BOTH SIDES OF MULLION

18 GA. METAL BAFFLE CONT. - SPLINE AT BUTT JOINTS

7½" HARDWOOD

5½"

2"

3½"

1"

S.D.

2½"

7'-0½"

2" x 3⅜" x 1'-0" LONG MET. STRAP 4'-0" O.C. ANCHOR TO WALL WITH ¼" ϕ x 10" BOLT & DOUBLE NUTS

2 - ¼" ϕ x 1½" CARRIAGE BOLTS EACH STRAP

GG SEE INT. ELEVS.

2" x 3" x ⅜" x 0'-6½" LONG ANGLE AT END WALLS

2 - ⅜" ϕ EXP. BOLTS TO BRICK WALL - WOOD SCREWS AT STUD WALL

MASONRY OPENING

4"

7'-9⅝"

7" x 6" x ⅜" x 2" LONG ANGLE - ⅜" ϕ EXP BOLT TO BRICK WALL

2 - ½" ϕ CARRIAGE BOLTS THRU SHELF EACH SUPPORT

LAP JOINT AS REQUIRED

H

7½"

1½"

5½"

1"N. WOOD FILLER O.H.M.S. & FINISHING WASHERS TO TRANSOM

J

MET. PLAS. TRIM & PLAS. WALL

STUD WALL SEE PLAN

DOOR FRAME BELOW @ K1

20 GA. G.S. METAL MULLION CLOSURE BOTH SIDES 2" ϕ COL. COPE AT HEAD & SET IN GROUT AT SILL FILL WITH MINERAL WOOL BATTS.

FILL WITH ⅝" TH. WOOD FLOOR TO CEIL. @ K1 BOTH SIDES

K - K1

K1 SIM

CONC. CURB - TOOLED MIN. RADIUS EDGE

6" TOP-SET BASE

CEM. CURB

2" ϕ TUBE MULLION ANCHORAGE - SEE STRUCT.

COMPO. FLOORING

MASTIC

2"

3½"

5½"

L

TYP. METAL DOOR FRAME W/ BACK CLOSURE CONT. WELD TO

2" ϕ TUBE MULLION

TOP-SET BASE

CONC. CURB

M

METAL MULLION CLOSURE SEE MULLION DET. K

℄ STUD WALL, SEE

METAL DOOR FRAME W/ MULLION SEE DETAIL E W/ BACK CLOSURE

N

GROUT FILL FLUSH W/ F.O.B. TYPICAL AT ALL EXPOSED FINISH WALL

WOOD TRIM - CUT FROM 1 x 3 RDND

℄ DRAPE TRACK & 2 x 3 STRIPPING

4" F.O.B.

TOP OF PLATE - SEE STRUC. DWGS.

2 x 3 STRIPP'G @ 16" O.C. 2 x 4 @ WOW.

2x6

4x16 - 6x16@A1

MASTIC

1½" TH. ACOUSTIC TILE ON 2 x 3 STRIPP'G 12" O.C. GYP. BD. WHERE SCHEDULED

℄ VENT PIPE

2"W x 1"D WOOD BLOCK CUT BTWN. 2" MULLIONS COVED WITH CONT. 3/8" x 1⅛" PINE MOULDG.

METAL PLAS. TRIM & PLAS. SOFFIT

LET-IN PLATE @ 2" x 3" COLS. ONLY - USE F.H. WOOD SCREWS

2"x3" COL. @ DET. B1

A - A1

2" SQ. METAL TUBE MULLIONS. SET SASH IN MASTIC. PAINT BITUMINOUS PAINT ON ALUM. SASH ON CONTACT WITH STEEL WHERE OCCURS.

2"x3" COL. WHERE NOTED @ DET. B1 ONLY

B - B1

16 GA. METAL DOOR FRAME TRANSOM

2" ϕ DR. #3 AL BLDG.

TYP. 1⅛" 1⅝" 1⅝" 1⅝"

5½"

EXT. FACE OF BRICK

C

TOOLED CEMENT SILL SLOPE FOR OPERATORS

¼"

3½"

4½"

2" ϕ TUBE COLUMN

9½" BRICK WALL

D

2"x3" MET. MULLION @ DR. #3 BLDG. AL

2 SQ. METAL TUBE MULLION - TYPICAL

MASTIC

TYPICAL METAL DOOR FRAME WITH BACK CLOSURE

¾" x 1½" x 16 GA. ℄ ANGLE WELD TO DOOR FRAME. BACK CLOSURE HEAD TO SILL - ANGLE & FRAME TO BE LIGHT TIGHT FROM SILL TO TOP OF FRAME. EXTEND L 5½" BELOW SILL.

E

6"x6" S.B.N. CERAMIC TILE SILL - CUT TILE TO START FROM ℄ OF COL. - CUT END PIECE TO DOOR FRAME

2"

1½"

½" PLAS. WHERE OCCURS

MASTIC

MAX. 2" RAISE FOR SASH LEG!!!

F

1" x 2" x 1/8" THICK ALUM L TO BRICK WALL SET IN MASTIC - F.H. SCREWS & EXPANSION BOLTS @ 18" O.C.

ALL DETAILS SCALE 3"=1'-0" UNLESS OTHERWISE NOTED

APPROVED: ARCHITECT

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
APPL. NO. 22220
DATE MAR 23 1962
PRINCIPAL STRUCT.

F.M. Eastwood
John F. Powell, Jr.

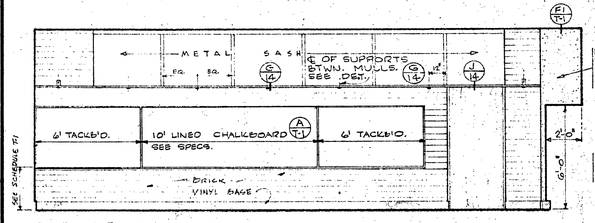
SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
816 W. 5th STREET MA 4-6748
LOS ANGELES 17, CALIFORNIA

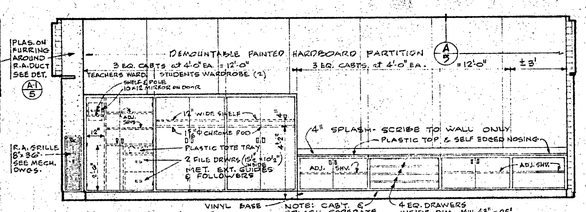
LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/26/62
DRAWN BY

DRAWING NO. 14 OF 52



ELEVATION 1



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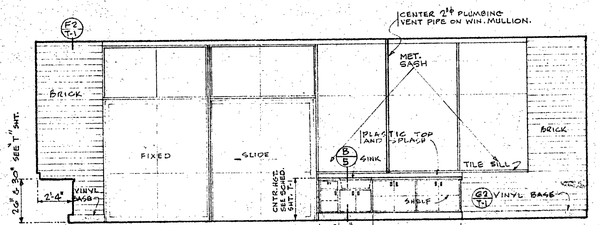

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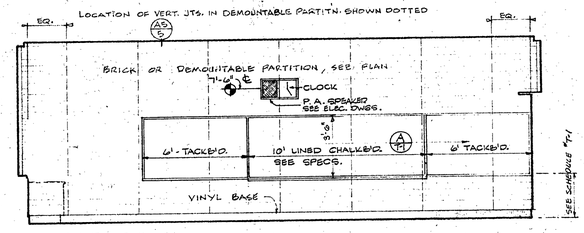
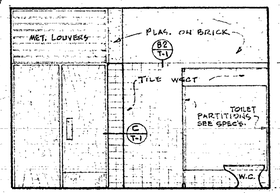


ELEVATION 4

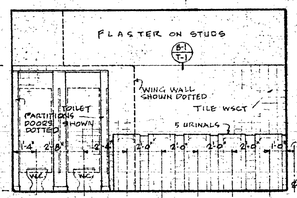
TYPICAL INTERIOR CLASSROOM ELEVATIONS

C3-1 DRAWN (C2-4 & 6, C1-1 & 3, C3-1 & 3, C4-4 & 6)(C2-5 & 7, C1-2 & 4, C3-2 & 4, C4-5 SIMILAR EXCEPT OPPOSITE HAND)



ELEVATION 1

BOYS TOILET C4-1



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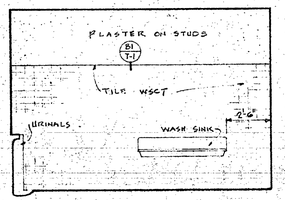
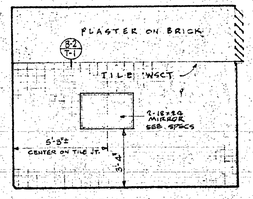


ELEVATION 3



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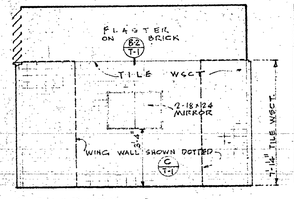
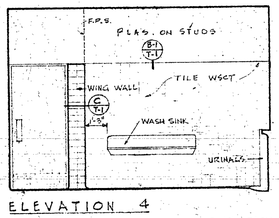


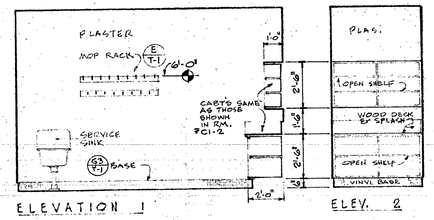
ELEVATION 3

BOYS TOILET C1-5

ELEVATION 1 AND 2 SIMILAR TO ELEVATION 1 AND 2 OF C4-1 EXCEPT OPPOSITE HAND.

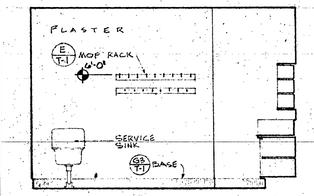


ELEVATION 4



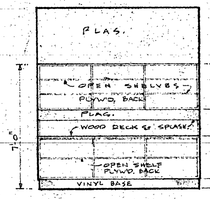
ELEVATION 1

CUSTODIAN C4-2

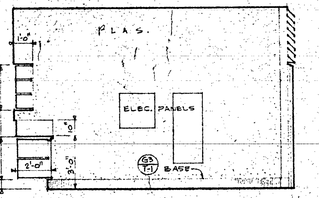


ELEVATION 1

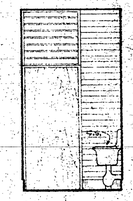
CUSTODIAN C2-2



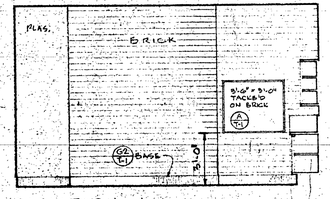
ELEV. 2



ELEVATION 3

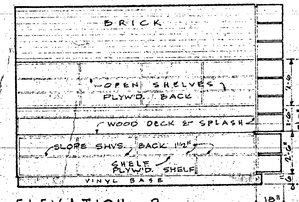


ELEV. 4



ELEVATION 1

CUSTODIAN C3-6



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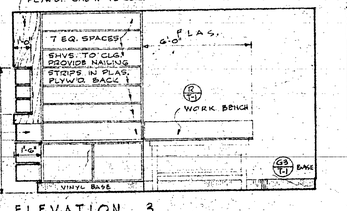
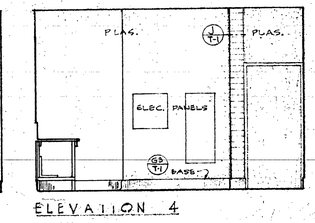


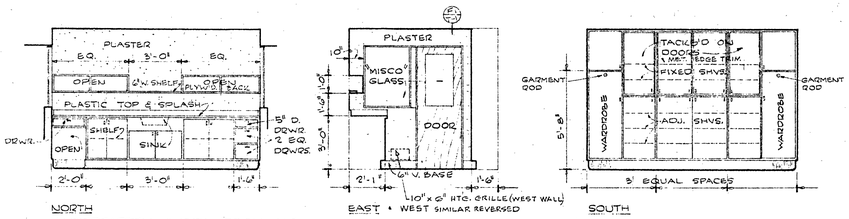
ELEVATION 3



ELEVATION 4

INTERIOR ELEVATION SCALE 1/4"=1'-0"

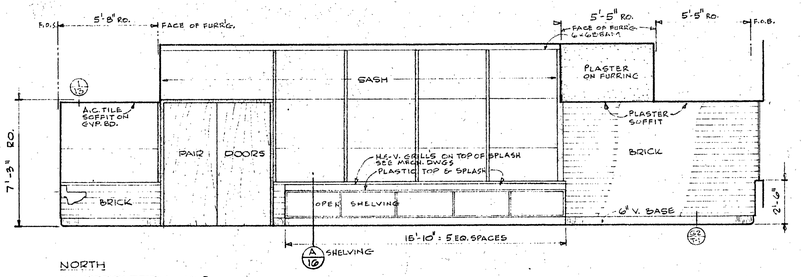
APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE 22220 APPL. NO. MAR 28 1962 DATE PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT J.M. Eastwood	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 816 W. 5th STREET MA 8-8745 LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 3/28/62 DRAWN BY	DRAWING NO. 15 OF 52



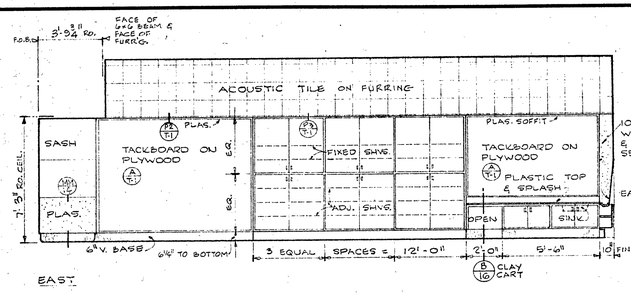
NORTH
KINDERGARTEN WORK ROOM K-5

EAST & WEST SIMILAR REVERSED

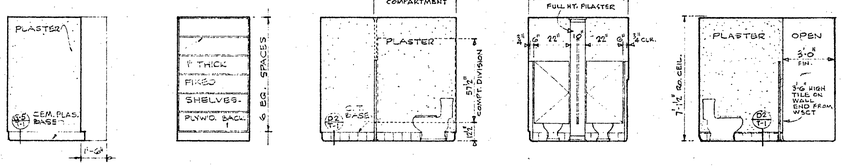
SOUTH



NORTH
KINDERGARTEN K-2



EAST

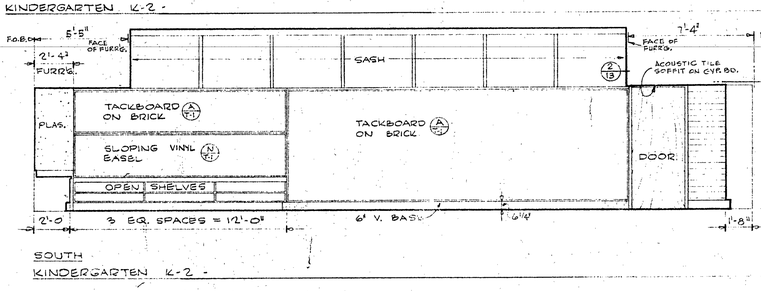


SOUTH WEST

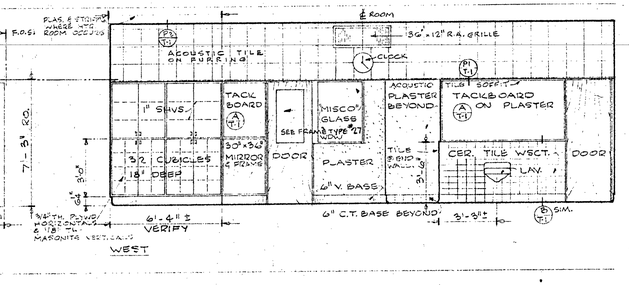
STORAGE K-6 ROOM K-7 SIMILAR

WEST NORTH EAST

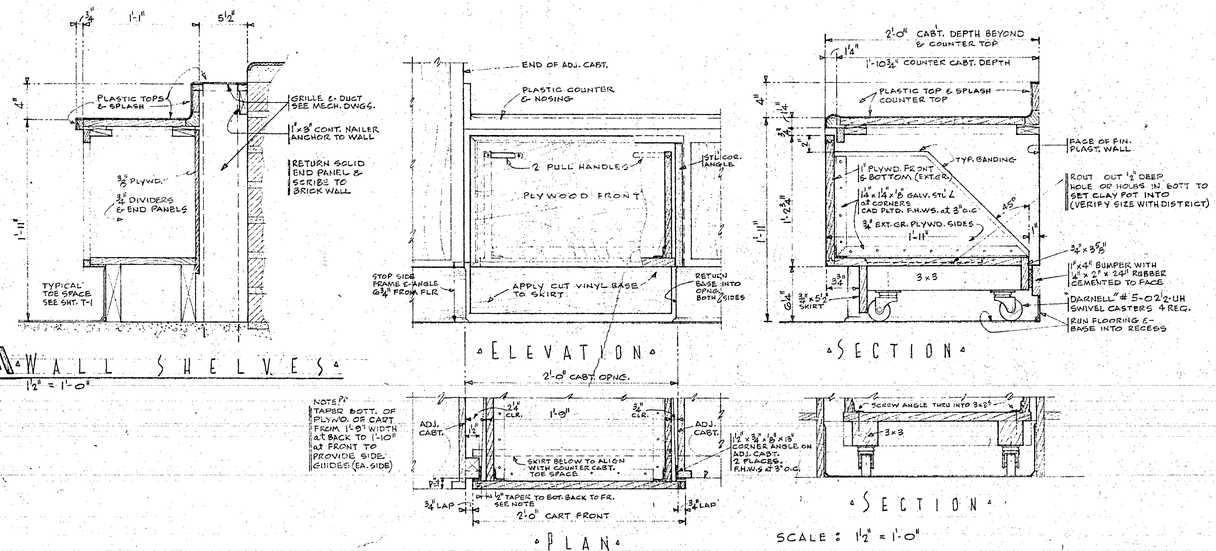
TOILET K-4 ROOM K-3 SIMILAR REVERSED



SOUTH
KINDERGARTEN K-2



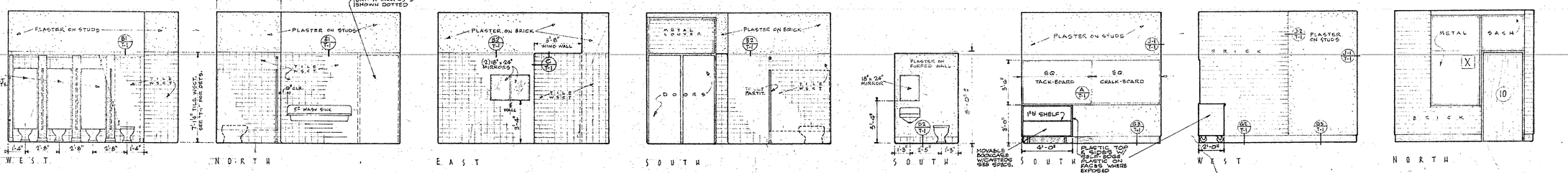
WEST



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

A WALL SHELVES
1 1/2" = 1'-0"

B KINDERGARTEN CLAY CART

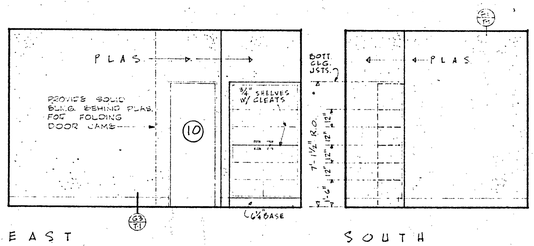


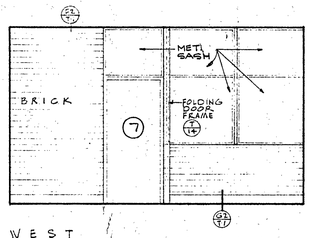
WEST NORTH EAST SOUTH SOUTH WEST NORTH

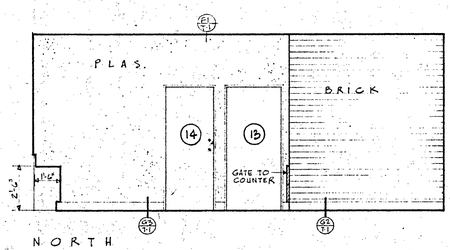
GIRLS TOILET C2-1 SHOWN C3-5 SIMILAR ONLY REVERSED

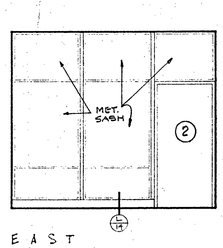
TOILET C4-5 OFFICE C1-6

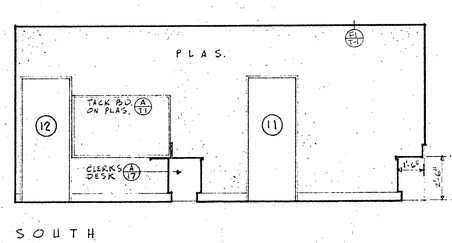
APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE. APPL. NO. 22220. DATE MAR 28 1962. PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT. COLUMBIA AT CORNELL. WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS. 816 W. 5th STREET MA 4-0746. LOS ANGELES 17, CALIFORNIA		LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 3/28/62. DRAWN BY. DRAWING NO. 16. OF 52

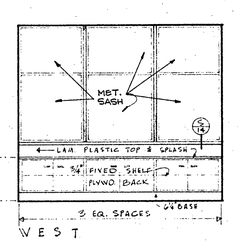




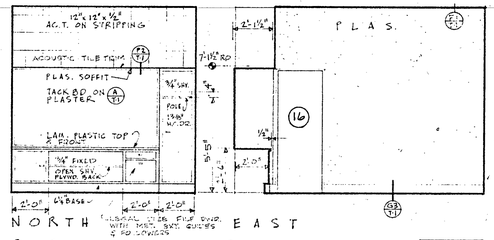








REST AREA 1 — CLERK 2 — PUBLIC 10



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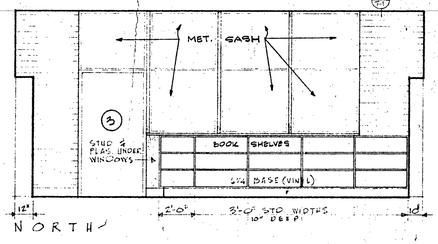

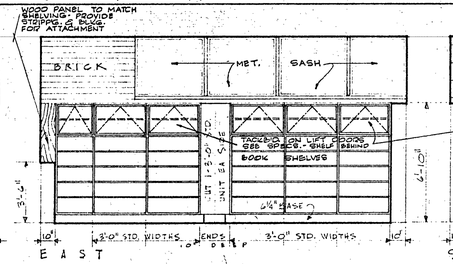

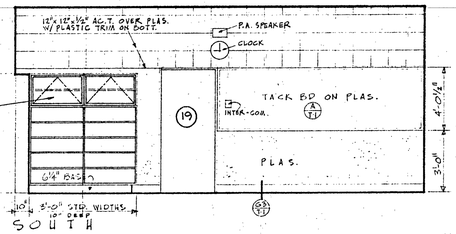

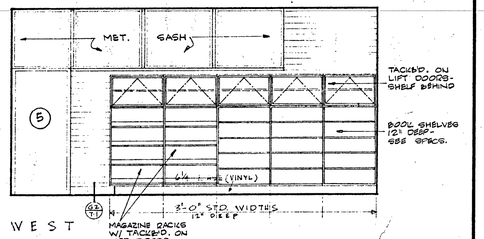

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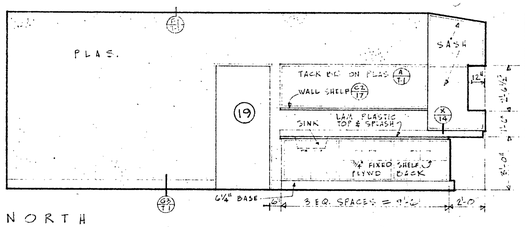
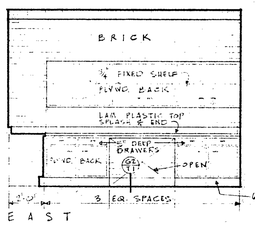
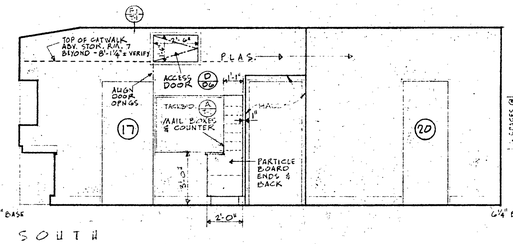
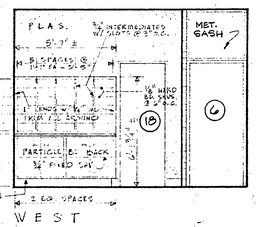
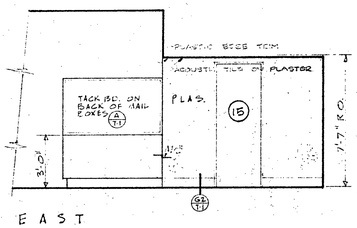


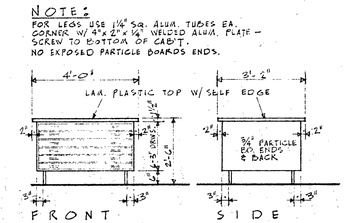






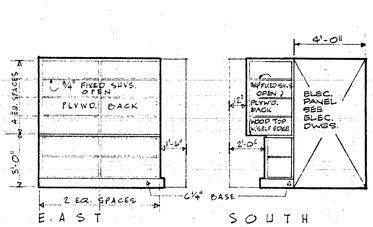


HALL 9

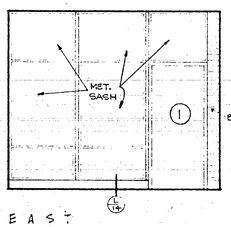


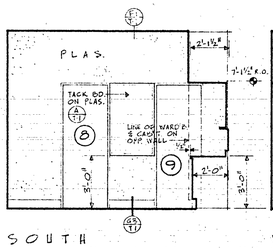
13 MOVABLE ISLAND COUNTER IN WORK RM
3/8" = 1'-0"

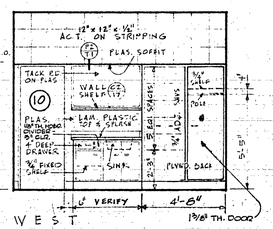
WORK ROOM 6



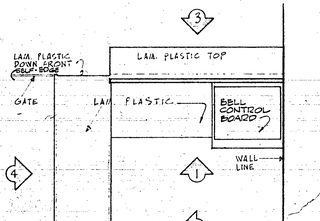
STORAGE 7



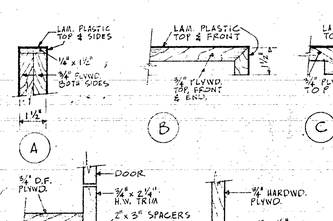


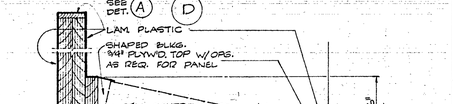


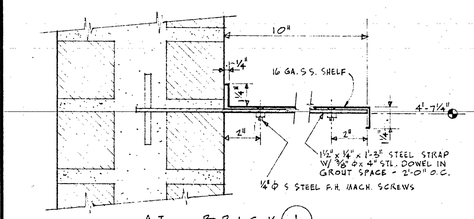
NURSE 11

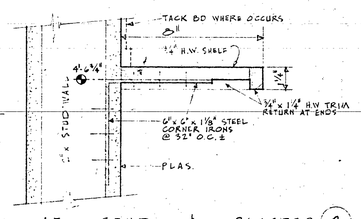


PLAN

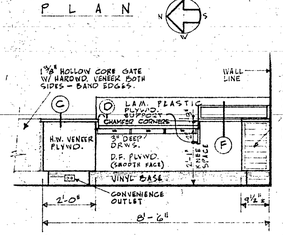


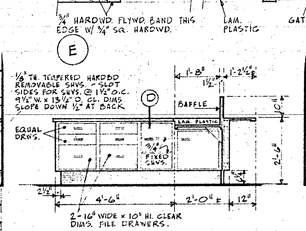


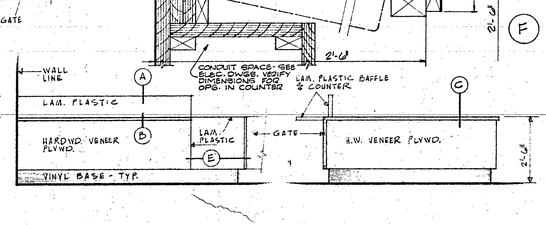




C WALL SHELF
3" = 1'-0"





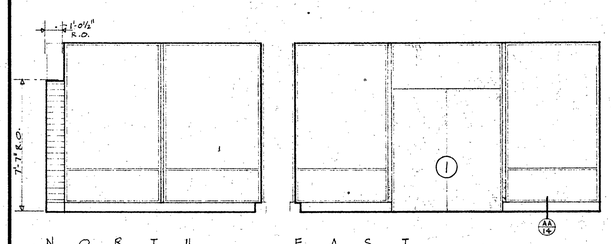


A CLERK'S DESK
SCALE DETS. 3"=1'-0" ELEVS. 3/8"=1'-0"

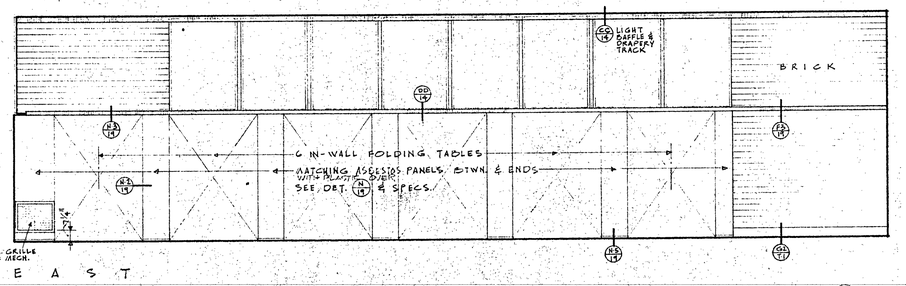
NOTES:
ALL HARDWD. TRIM & HARDWD. VENEER PLYWD. WILL BE WALNUT.

APPROVED: Lee B. Kline ARCHITECT	APPROVED: 2-2220 APPL. NO. MAR 23 1962 DATE — STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE — E. Moore PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT T.H. Englewood John F. Jones Jr.	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 816 W. 5th STREET MA 4-8745 LOS ANGELES 17, CALIFORNIA		LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 5/22/62 DRAWN BY BLK — DRAWING NO. 17 OF 52

AL



NORTH EAST



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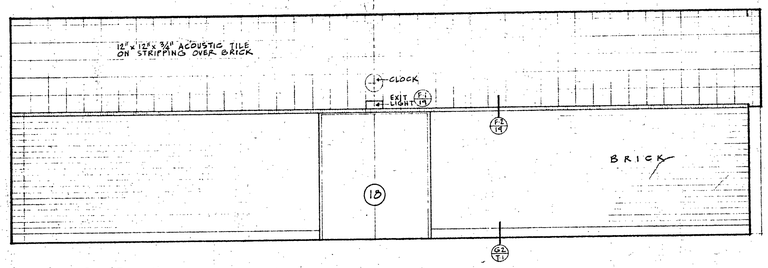
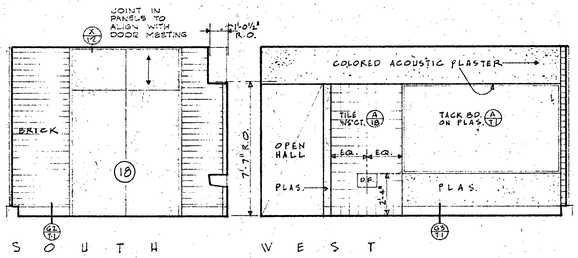
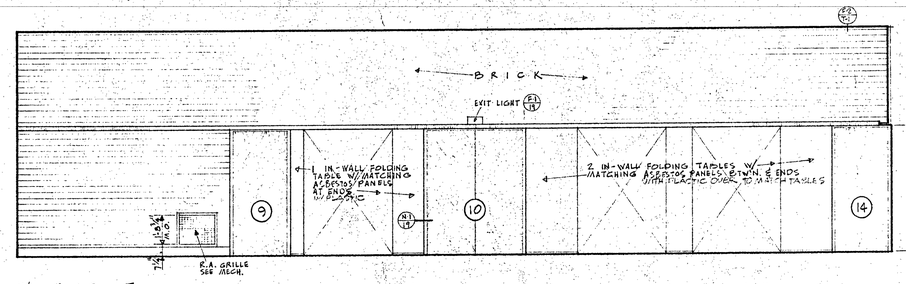


NORTH

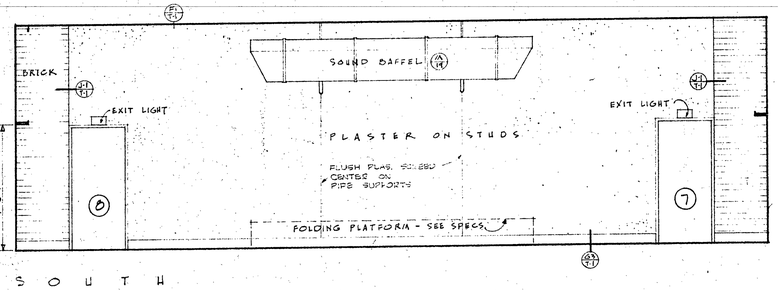


SOUTH WEST

FOYER 1

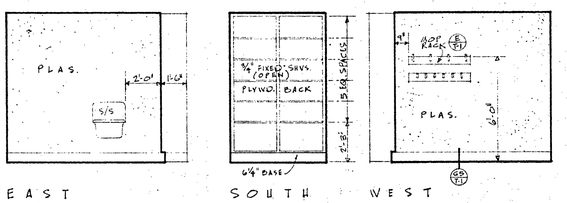


WEST



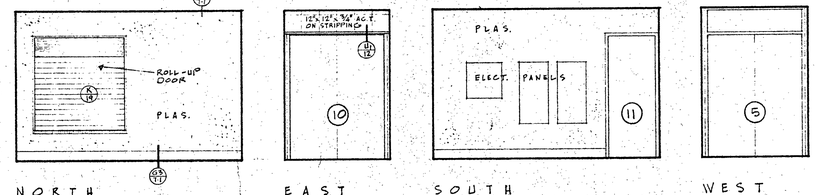
SOUTH

MULTIPURPOSE ROOM 2



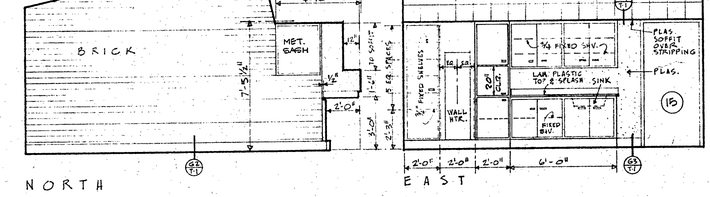
EAST SOUTH WEST

CUSTODIAN 4



NORTH EAST SOUTH WEST

ENTRY 6



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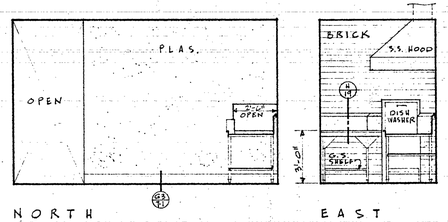

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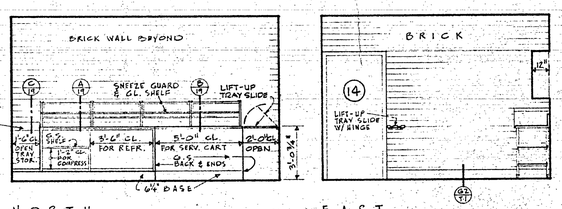
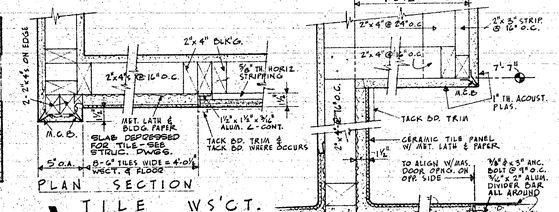
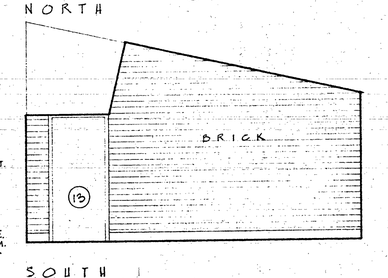


NORTH

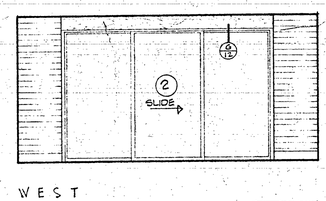
EAST



A TILE W.C.T. AT FOYER
1½" = 1'-0"

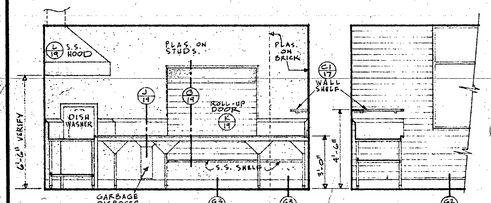


SOUTH



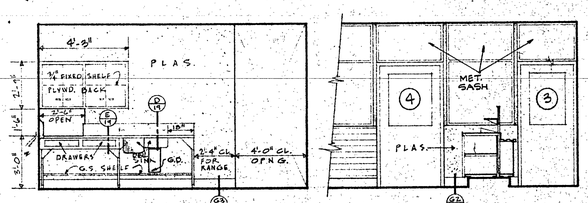
WEST

TEACHER'S DINING 9



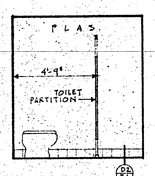
SOUTH WEST

DISHWASHING 7



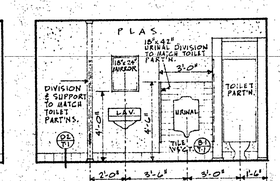
SOUTH WEST

KITCHEN 8



NORTH

MEN'S TOILET



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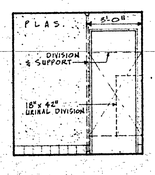
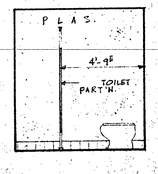
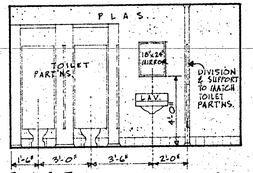


SOUTH

12

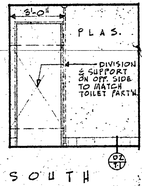


NORTH



EAST

WOMEN'S TOILET



SOUTH

11

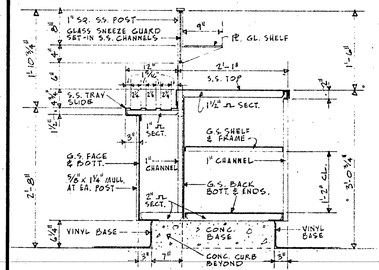
APPROVED: Lee B. Kline — ARCHITECT
APPROVED: — ENGINEER
APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
22220 APPL. NO.
MAR 28 1962 DATE
PRINCIPAL STRUCTURAL ENGINEER
APPROVED: FOR THE DISTRICT
F. M. Eastwood
John F. Jordan

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

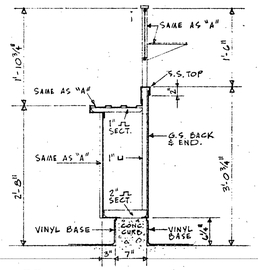
HILLMAN & NOWELL
STRUCTURAL ENGINEERS
816 W. 5th STREET MA 4-8748
LOS ANGELES 17, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

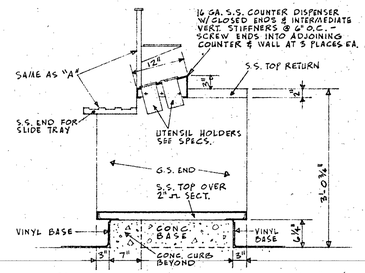
DATE OF DRAWING 3/20/62
DRAWN BY
DRAWING NO. 18 OF 52



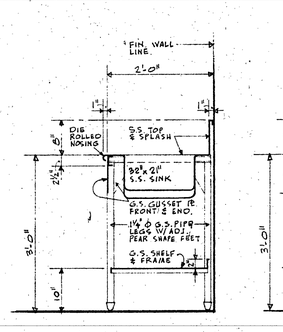
A SERVING COUNTER
3/4" = 1'-0"



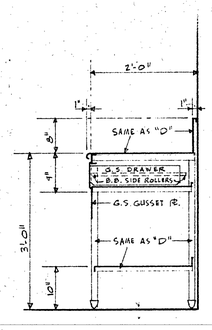
B COUNTER AT SERVING CART
3/4" = 1'-0"



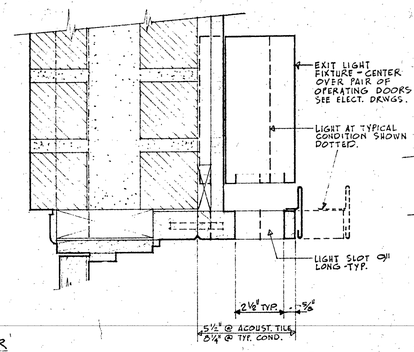
C COUNTER AT TRAY UTENSIL STORAGE
3/4" = 1'-0"



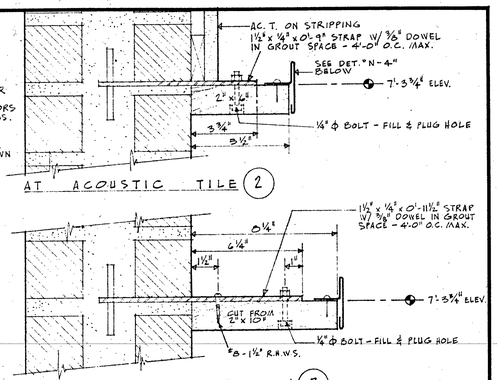
D WORK COUNTER AT SINK
3/4" = 1'-0"



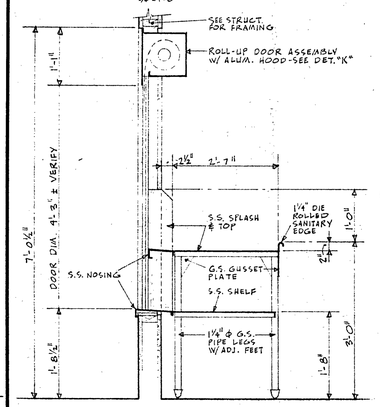
E WORK COUNTER AT DRAWERS
3/4" = 1'-0"



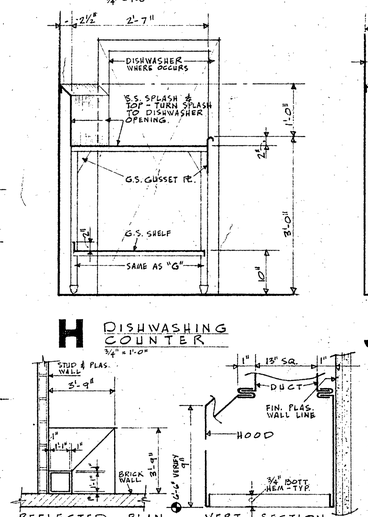
AT EXIT DOWN LIGHT (1)



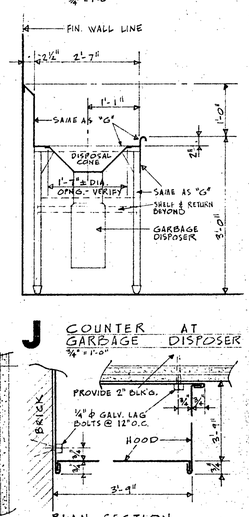
F SHELF ANCHORAGE DETAILS
3" = 1'-0"



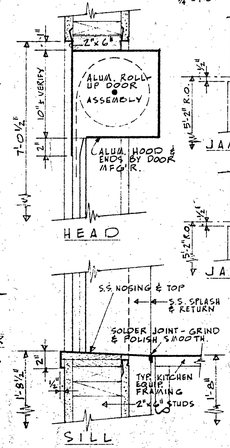
G DISH PORT
3/4" = 1'-0"



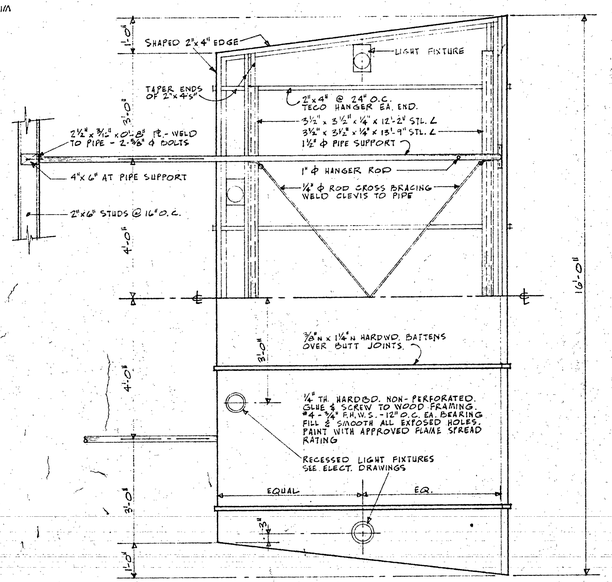
H DISHWASHING COUNTER
3/4" = 1'-0"



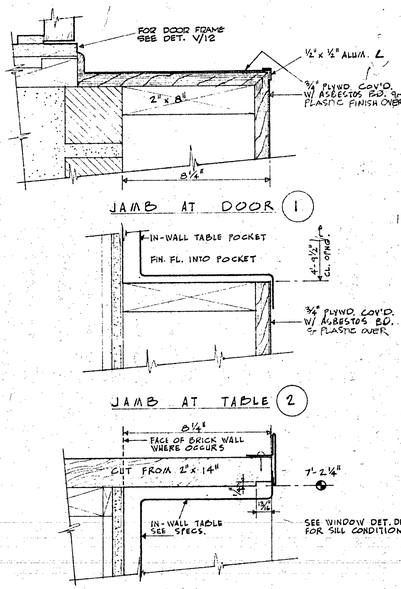
J COUNTER AT GARBAGE DISPOSER
3/4" = 1'-0"

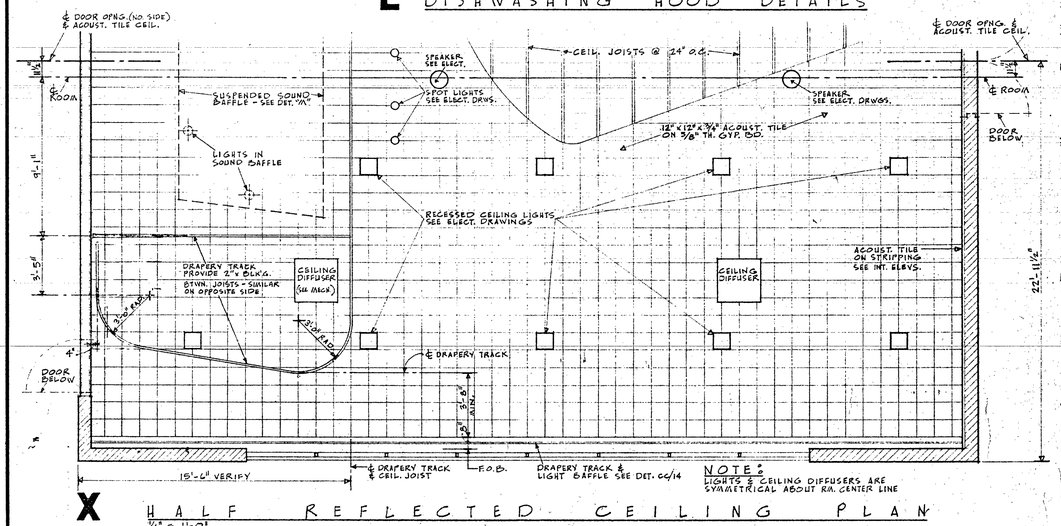


K METAL ROLL-UP DOOR DETAILS
1½" = 1'-0"



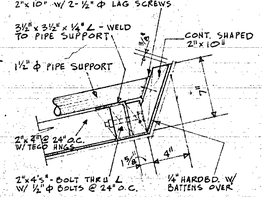
HALF PLAN & REFLECTED BAFFLE SOFFIT PLAN
½" = 1'-0"



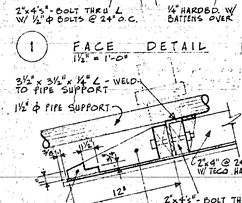


NOTE: LIGHTS & CEILING DIFFUSERS ARE SYMMETRICAL ABOUT RM. CENTER LINE

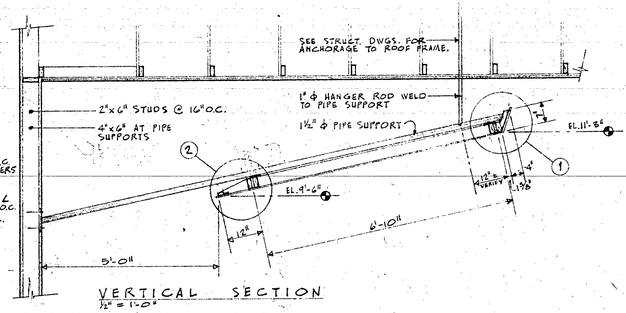
X HALF REFLECTED CEILING PLAN
¼" = 1'-0"



(1) FACE DETAIL
1½" = 1'-0"

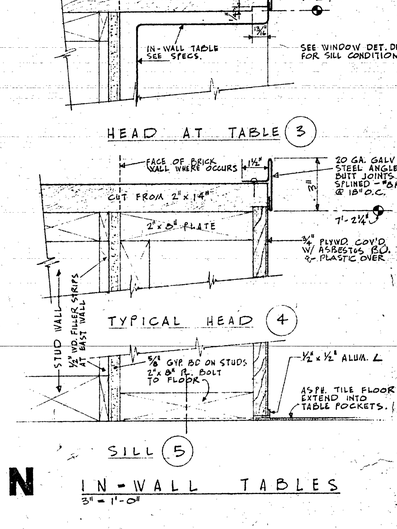


(2) EDGE DETAIL
1½" = 1'-0"



VERTICAL SECTION
½" = 1'-0"

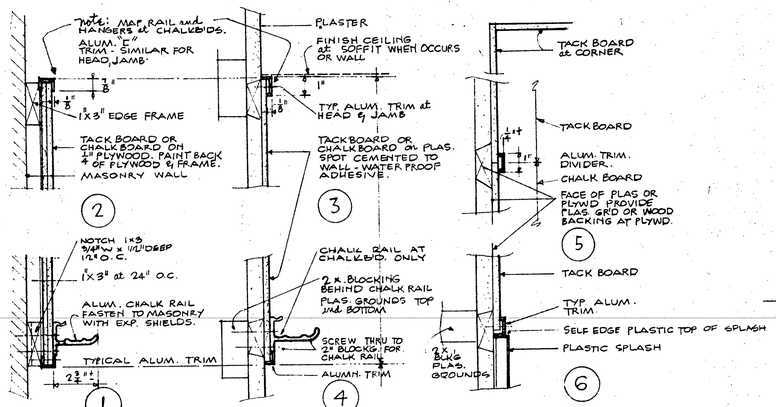
M SOUND BAFFLE DETAILS



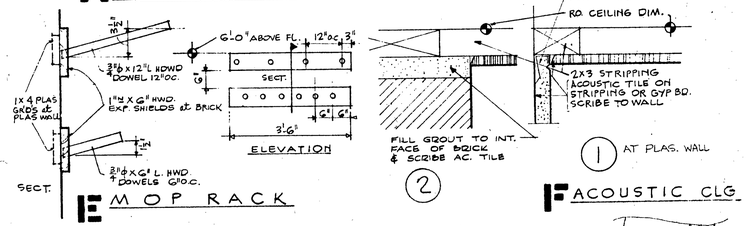
HEAD AT TABLE (3)
TYPICAL HEAD (4)
SILL (5)

N IN-WALL TABLES
3" = 1'-0"

APPROVED: Lee B. Kline ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE 22220 APPL. NO. MAR 28 1962 DATE — PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT F.M. Eastwood John F. Ford, Jr.	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 816 W. 5th STREET MA 4-8748 LOS ANGELES 17, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241 — DATE OF DRAWING 3/26/62 — DRAWN BY — DRAWING NO. 19 OF 52

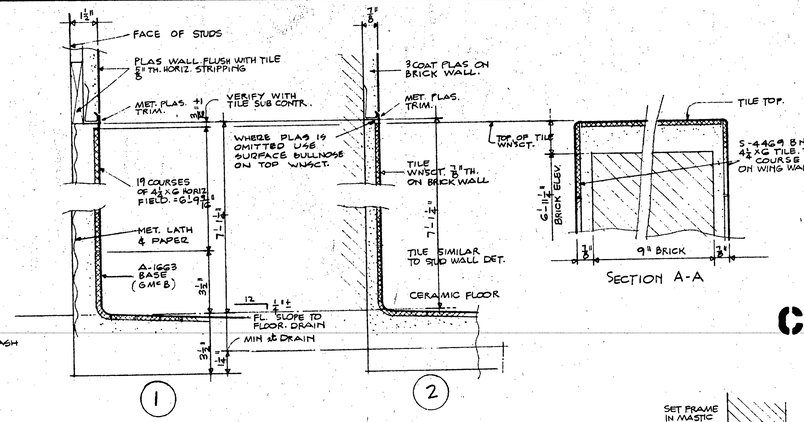


A TACKBOARD and CHALKBOARD



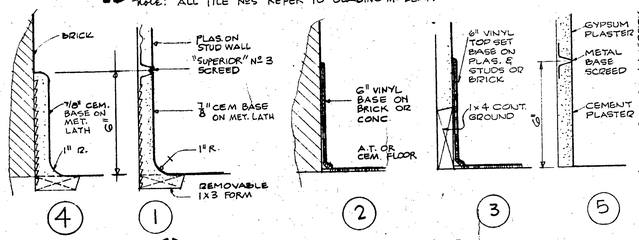
E MOP RACK

F ACOUSTIC CLG

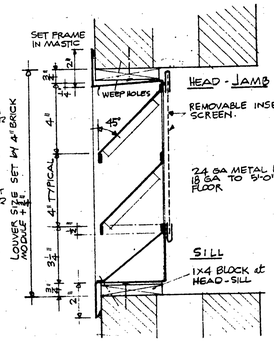


B TILE WAINSCOT DETAILS

Note: ALL TILE NOS REFER TO GLADING Mc BEAN



G BASE DETAILS



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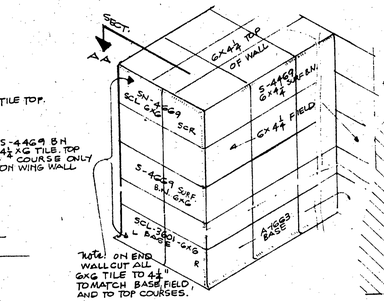
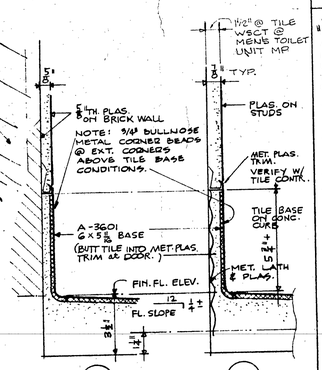
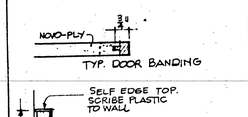
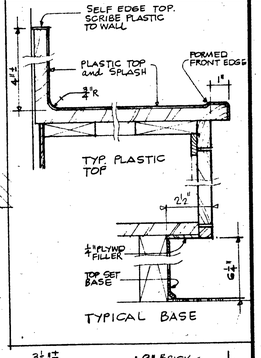


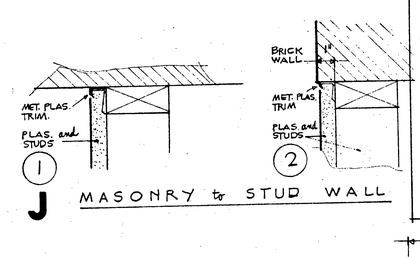
C ISOMETRIC DRAWING OF TILE WING AND END WALLS - TOILET ROOMS



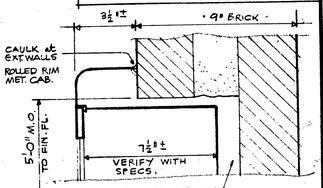
D TILE BASE DETAILS



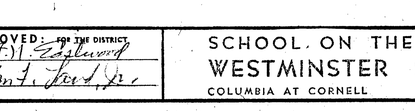




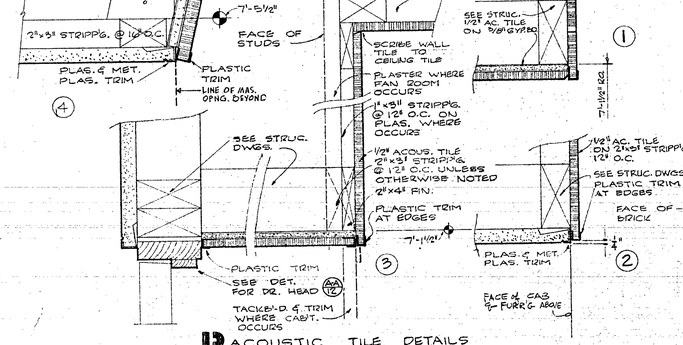
J MASONRY to STUD WALL



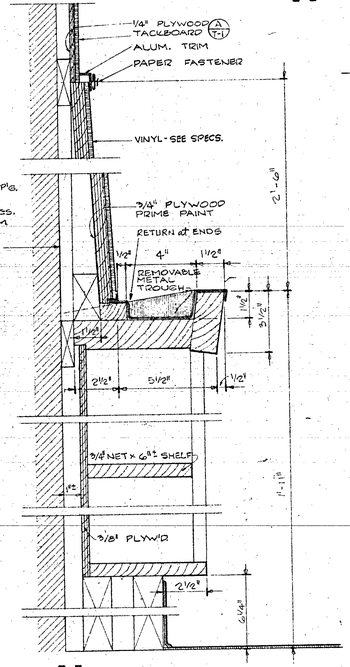
K TYP. FIRE EXTINGUISHER CAB



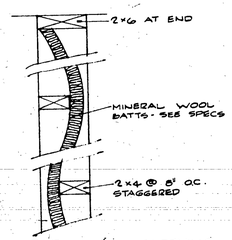
Q METAL FLOOR DIVIDER



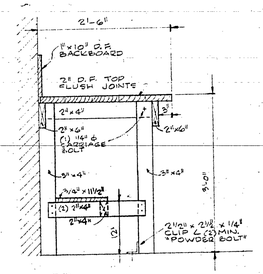
P ACOUSTIC TILE DETAILS



N LINOLEUM EASEL



M SOUND DEADENING PARTITION



P WORK BENCH

EQUIPMENT	KINDER	1-2	3-4	5-6
CHALKB'D. EASEL COUNTER	1'-11"	2'-1"	2'-3"	2'-5"
MIRROR BOTTOM	2'-8"	3'-4"	3'-4"	3'-4"
WARDROBE POLE	3'-5"	3'-8"	3'-10"	4'-0"

APPROVED: _____ ARCHITECT _____ ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
APPL. NO. 22220
DATE MAR 28 1962
PRINCIPAL STRUCTURAL ENGINEER

APPROVED: FOR THE DISTRICT
J. H. Eastwood
John L. Ford Jr.

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
816 W. 5th STREET MA 4-3743
LOS ANGELES 17, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/28/62
DRAWN BY

DRAWING NO. T-1
OF 52

TYPICAL NOTES

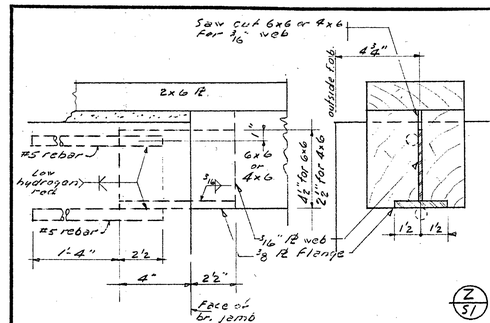
CASE WORK TO CONFORM TO "PREMIUM" GRADE CONSTRUCTION AS ADOPTED BY THE "WOODWORKING INSTITUTE of CALIFORNIA" LATEST EDITION. VARIATIONS FROM W.I.C. SHALL BE SHOWN ON DRWGS OR SPECS. OMIT DOOR STOP AT HINGE JAMB.

JOB SAND ALL CORNER & EDGES TO 1/8" R.

ALL CABINETS OVER 5'0" HIGH TO BE SECURLY ANCHORED TO BUILDING WALLS.

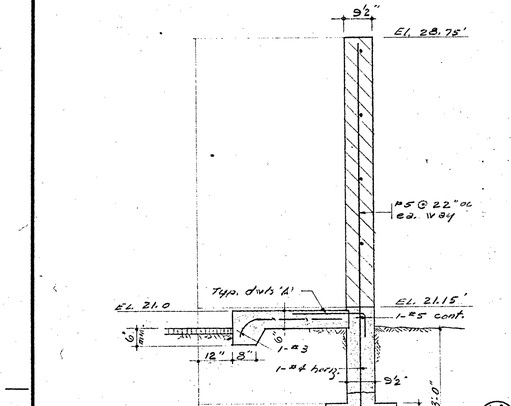
PROVIDE LOCK BLOCK AT TEACHERS WARDROBES FOR "GLEN JOHNSON" HARDWARE.

3/4" TH. SHELVES TYPICAL.



Z/S1

TYP. WOOD LINTEL TO BRICK JAMB CONN.

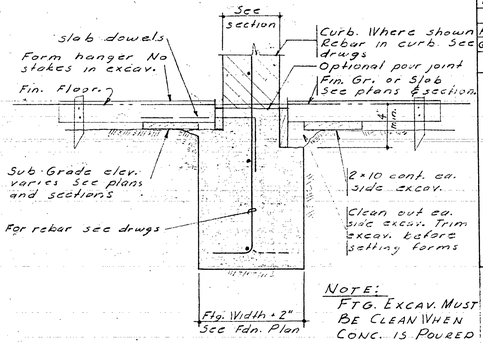


AA/S1

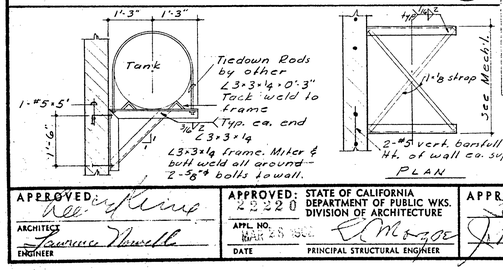
OPTIONAL FOOTING DETAIL

Check site condition & Review soil type with Structural Engineer.

BP/S1

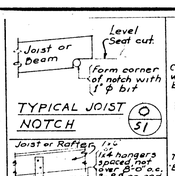


NOTE: FTG. EXCAV. MUST BE CLEAN WHEN CONC. IS POURED



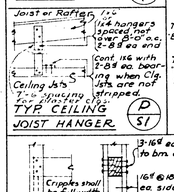
SUPPORT FOR 24"ø EXPANSION TANK.

CC/S1



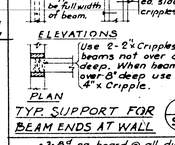
TYPICAL JOIST NOTCH

O/S1



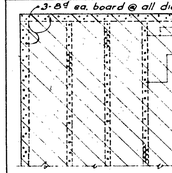
TYP. CEILING JOIST HANGER

P/S1



TYP. SUPPORT FOR BEAM ENDS AT WALL

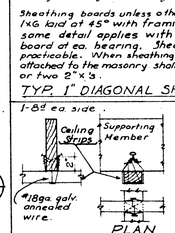
S/S1



Sheathing boards unless otherwise noted or specified shall be 1K6 load at 45° with framing. If 1x8 are specified this same detail applies with the addition of one 8d to ea. board at ea. bearing. Sheathing boards shall be as long as practicable. When sheathing butts to masonry the edge member attached to the masonry shall be not less than one 3"x or two 2"x 3.

U/S1

TYP. 1" DIAGONAL SHEATHING DETAIL.



NOTE FOR PLASTERED CEILINGS

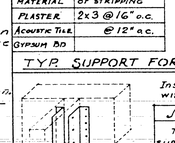
Install wire ties at 4'-0" o.c. along ea. ceiling strip as follows:— Drive one 8d nail ea side to ½" penetration and slanted down. Saddle he stripping with #18 ga. galv. annealed tie wire. Take a min. of three twists around 8d or ea. nail. In lieu of 2-8d shown one 16d penetrating thru the joist may be used.

See Nailing Schedule, item 10, for typ. nailing of stripping. Note that wire tie ups are not required if STRONGHOLD NAILS are used as scheduled. Predrill for nails at joints to prevent splitting.

CEILING MATERIAL	SIZE AND SPACING OF STRIPPING
PLASTER	2x3 @ 16" o.c.
ACOUSTIC TILE	@ 12" o.c.
GYPSUM BD	

V/S1

TYP. SUPPORT FOR CEILING STRIPS.

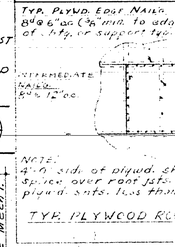


Unless otherwise noted or detailed all headers, trimmers and tail joists shall be supported on approved hangers.

JOIST HANGER SCHEDULE	
THICKNESS OF SUPPORTED MEMBER	TYPE
2" TO 4 x INGL.	TIMFAST TYPE SM
	UNIVERSAL
	TECO-U-HGE
6" AND OVER	TIMFAST TYPE 1A
	IRON ANGLE

W/S1

TYPICAL JOIST HANGERS.



TYP. PLYWOOD ROOF SHTG. DETAILS

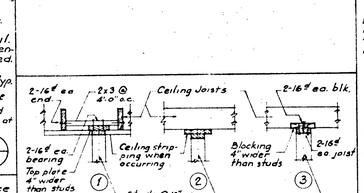
Y/S1

NAILING SCHEDULE

Connections listed are minimum permissible. All nails shall be common wire nails unless otherwise noted. Where possible, nails driven perpendicular to the grain shall be used instead of toe nails.

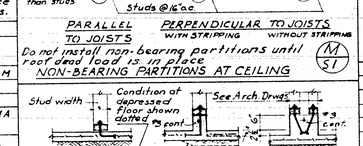
DETAIL	FASTENING
1-Joists or rafters to sides of studs.	
8" Joists or less	3-16d
For ea. additional 4" in depth or less	1-16d
2-Joists or rafters at all bearings	
Toe nails ea. side	2-10d
3-Studs to bearings	
Toe nails ea. side	2-10d
4-Blocking between joists or rafters	
To joist or rafter - Toe nails ea. side, ea. end	2-10d
To joist or rafter bearing - Toe nails ea. side	2-10d
5-Blocking between studs - Toe nails ea. end (2-16d end nails may be used at either or both ends in lieu of toe nails when feasible.)	2-10d
6-Sheathing at all bearings	
1" x 6"	2-8d
1" x 8"	3-8d
Plywood (at all edges 6"@ 6" oc. at all interior supports - 6"@ 12" oc. (Underlayment puttied)	
7-Diagonal sheathing at all ends	
1" x 6"	3-8d
1" x 8"	4-8d
8-Cross bridging between joists or rafters Toe nails ea. end	2-8d
9-Herringbone blocking, ea. end	2-10d
10-Ceiling strips to under side of joists, per bearing	
1" x 4" - one straight and one slant	2-8d
2" x 3" " " " "	2-16d
2" x 4" " " " "	2-10d
In lieu of common wire nails "Stronghold" (annularly grooved) nails may be used as follows:- (For spans 24" max.)	
1" x 3"	2-8d
1" x 3 flat	1-16d
2" x 3	1-16d
At plastered ceilings refer to S/S1	
11-R. ribbons to studs	
1" ribbons	2-8d
2" ribbons	2-16d
12-Double Top Plates	
Lower plate to top of stud	2-20d
Upper plate to lower plate - staggered	16d@16"
Upper plate to lower plate - at intersection	3-16d
13-Multiple Studs - Stagger where possible	16d@12"
14-Built up Beams	
10" or less in depth - staggered	16d@12"
More than 10" deep - staggered	(bolts) ½"ø @ 2'0"
15-Double Joists under Partitions	
Where not blocked apart - staggered	16d@16"
Where blocked apart - at ea. block ea. side	2-16d

Note:- Details shall govern in all cases when their nailing requirements are more stringent than the above schedule.



PIPES IN STUD WALLS

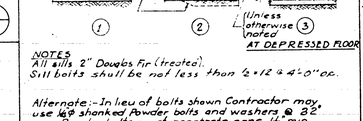
K/S1



Do not install non-bearing partitions until roof dead load is in place

NON-BEARING PARTITIONS AT CEILING

M/S1

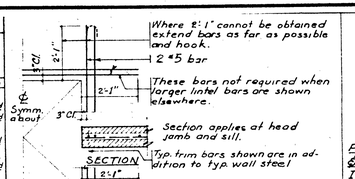


NOTES
All sills 2" Douglas Fir (treated).
Sill bolts shall be not less than ½"ø x 12" & 4'-0" oc.

Alternate:- In lieu of bolts shown Contractor may use ⅝ø shanked Powder bolts and washers @ 32" o.c. Powder bolts must penetrate conc. 1½" min. Powder bolts not permitted when partitions rest on curbs.

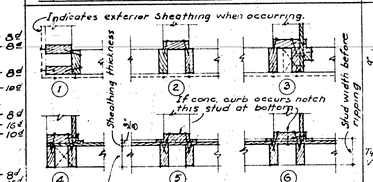
NON-BEARING PARTITIONS AT FLOOR

N/S1



TYPICAL TRIM BARS AT BRICK OPENINGS

H/S1

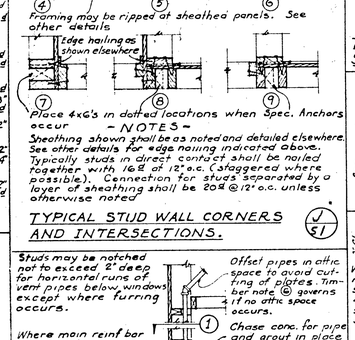


- NOTES -

Sheathing shown shall be as noted and detailed elsewhere. See other details for edge nailing indicated above. Typical sheathing is in direct contact shall be nailed together with 16d at 12" o.c. (Staggered where possible.) Connection for studs separated by a layer of sheathing shall be 20d @ 12" o.c. unless otherwise noted

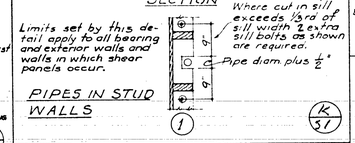
TYPICAL STUD WALL CORNERS AND INTERSECTIONS.

J/S1



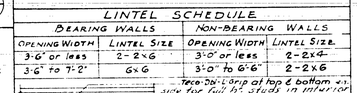
TYPICAL FOOTING STEP

E/S1



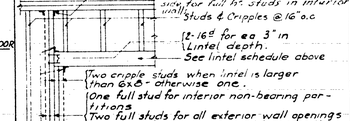
PLAN OF STEEL IN WALLS, BEAMS & FOOTING PADS AT CORNERS & INTERSECTIONS.

A/S1

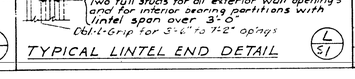


TYPICAL HOOKS & BENDS

B/S1



TYP. DOWELS "A" TYP. DOWELS "B"



AT OPENINGS

TYPICAL DOWELLING OF SLABS ON EARTH TO WALLS

C/S1

TYPICAL FOOTING POUR JOINT

D/S1

TYPICAL POUR JOINT IN FORMED WALLS

F/S1

DETAIL OF PIPES AT CONCRETE FOOTINGS

G/S1

LINTEL SCHEDULE

BEARING WALLS		NON-BEARING WALLS	
OPENING WIDTH	LINTEL SIZE	OPENING WIDTH	LINTEL SIZE
3'-6" or less	2-2x6	3'-0" or less	2-2x4
3'-6" to 7'-2"	6x6	3'-0" to 6'-6"	2-2x6
		7'-2" to 8'-0"	3-2x6

Two 2x6 cleats at top & bottom of stud for full ht studs in interior wall

Studs & Cripples @ 16" o.c.

2-16d for ea 3" in Lintel depth. See lintel schedule above

Two cripple studs when lintel is larger than 6x8 - otherwise one.

One full stud for interior non-bearing partitions

Two full studs for all exterior wall openings and for interior bearing partitions with lintel span over 3'-0"

Obst-Grip for 5'-1" to 7'-2" openings

L/S1

TYPICAL LINTEL END DETAIL

- GENERAL NOTES -

SOIL CONDITIONS

① Soil supporting footings is silt & clay.
② Soil bearing value for use in design assumed to be 2000 #/ft² D.L.
③ Footings shall extend at least 1'-0" into natural undisturbed soil or 3'-0" below finish grade, whichever is the lower. See soil report by Lokey, Crandall & Assoc. dated 16 Feb. 1962

REINFORCED CONCRETE

① No brick or porous material shall be used to support footing steel off the ground
② All concrete shall have a min. ultimate compressive strength of 2000 psi at 28 days unless otherwise noted.
③ Anchor bolts and dowels shall be securely held in place before concrete is poured.
④ Splices in reinforcing steel shall lap 30 bar diam. min. for all bars, including column steel. All splices and laps bars shall be separated 2½ diam. o.c. min. but in no case shall the separation be less than 1½" clear. However column bars may be separated 1" min. and wall bars may be wired together.
⑤ Reinforcing steel shall have min. protective conc. covering as given below.

WALL STEEL BELOW GRADE	WALL STEEL ABOVE GRADE
On dirt side when poured against dirt - 3"	In all cases — 1"
On dirt side when formed — 2"	
On side away from dirt — 1"	

OTHER ITEMS	
Footing Pads — 3"	Tied Columns (to main steel) — 1½"
Slabs on forms — ¾"	Spiral Columns (to main steel) — 2"
Joists (sides, tops, soffits) - ¾"	Beams & girders (sides, tops, soffits) - 1½"

⑥ Slabs on earth other than walks shall be reinforced with 6"x6" - 10x10 Welded Wire Fabric located at mid-depth of slab.
⑦ Dowel slabs to walls and other edge members as per typical details.
⑧ See Architectural and/or Mechanical Drawings for location of pipes, vents, ducts and other similar openings.
⑨ All walls shall be doweled to supporting footings, beams, pads, etc. with bars of the same size and spacing as the vertical bars in the wall. Anchorage of dowels shall be the equivalent of a bar splice.
⑩ Wall footing pads not otherwise detailed shall be 10" thick and 1'-2" in width and reinforced as per typical details.
⑪ Unless otherwise detailed, rest steel in continuous beams and spandrels shall have the top steel spliced at mid-span and the bottom steel spliced over supports. At discontinuous ends the top steel shall be bent down 12 diameters or 12" minimum, whichever is greater.

STRUCTURAL STEEL

① When stress is not given and/or details are not shown design connections for members carrying direct stress to develop the strength of the members.
② AISC standard beam connections or connections of equal strength shall be used for all beam connections not shown.
③ Base plates shall be bedded on drypack grout of 1" min. thickness.
④ All welding shall be done by the electric shielded arc process.
⑤ At bolted connections no bearing on threads will be permitted. To avoid such bearing washers or their equivalent shall be used.
⑥ The following structural steel items shall be tested:- M-P - 10 GIS, 12 B 22, 6 x ½" Flanges, ½" web, 8 W 17 A-L - 12 B 14, 10 B 15, 12 B 19, , 12 B 16, 6 B 8.5

TIMBER

① All framing lumber shall be grade marked Douglas Fir. See Specifications
② Sill plates shall be treated Douglas Fir unless otherwise noted. All sills for exterior bearing walls shall be set on a min. of ¼" dry-pack.
③ Sill plates shall be bolted to concrete with ⅝"ø x 12" bolts at 4'-0" o.c. max. unless otherwise noted. At all corners, intersections, door openings, sill ends and where ever any cut or notch in the sill exceeds ⅓ the sill width, place a bolt not over 9" from the notch or end of the sill piece. Should a special condition arise where the bolts are not spaced within the 9" noted above the sill may be spliced as shown in detail ⑧.
④ Where studs partitions join conc or masonry walls the end stud shall be anchored thereto with ½"ø bolts near top and bottom and at each row of fire blocking. Such bolts shall be embedded in the wall not less than ⅔ rds of the wall thickness or 8" minimum.
⑤ Studs shall be spaced @ 16" o.c. max. and of the size shown on plans and sects.
⑥ No structural members shall be cut for pipes, vents, ducts and other similar openings unless detailed or specified as detailed.
⑦ Joists and rafters shall be spliced at supports only unless otherwise detailed. Splices shall lap not less than 1'-0" min. and be nailed together with 3-16d min.
⑧ Two inch solid blocking shall be placed between joists or rafters at all points of support and under all partitions running across joists, unless otherwise detailed
⑨ 2x3 cross bridging shall be placed between joists or rafters where spans exceed 8'-0". Bridging members shall be set 1½" clear from top and/or soffit of joists or rafters. The distance between lines of bridging and between bridging and wall shall not exceed 8'-0". Cross bridging is not required for roof and ceiling joists 8" and under in depth.
⑩ All bolts shall be fitted with standard cut washers. Holes for bolts in timber shall be bored with a bit whose diam. is 1/32 larger than the nominal bolt diam.
⑪ Double top plates on all exterior and bearing partitions (not otherwise detailed) shall lap 4'-0" min. at splices and have 6-16d min thru lap.

BRICK MASONRY

① See specifications for brick, mortar & grout. Lap all reinf. bars 40 diam. at splices.
② All isolated bolts embedded in masonry shall be grouted solidly in place with not less than 2" of grout surrounding the bolt.
③ Vertical bolts shall be placed 4" in from the face of the masonry and shall be set inside any horizontal ties occurring at the tops of piers and columns.
④ Clusters of bolts shall be grouted as a unit with a min. of 1½" of grout surrounding all bolts. Minimum spacing between bolts in clusters shall be 6 diameters.
⑤ Wood and/or steel members anchored to the face of masonry walls and supporting vertical loads shall be backed up with concrete or grout for the full length and depth of the member. Size, spacing and placement of anchor bolts will be found on the structural details.
⑥ Rafters, joists or solid blocking when bolted to walls parallel thereto shall be backed up with concrete or grout as noted in Ⓔ above, or each bolt shall be grouted as an isolated bolt in Ⓔ above.
⑦ At all corners and intersections single curtains of horizontal steel shall be treated as noted in Ⓔ except lap bars 40 diam.
⑧ Locate and bolts anchoring wood members (which support vertical loads) within 12" of the end of the member.

WALL THICKN'S	HORIZ. REINF.	VERT. REINF.
9"	#5 @ 23" oc.	#5 @ 23" oc. on ℄ wall
9½	#5 @ 22" oc.	#5 @ 22" oc. on ℄ wall
10½	#5 @ 20" oc.	#5 @ 20" oc. on ℄ wall

- LEGEND -

- New Concrete in Section.
- Existing Concrete in Section.
- Brick in Section
- Continuous Wood Member.
- Wood Blocking
- Indicates Footing Step
- W.W.F. = Welded Wire Fabric.
- 00'-00" = Elevation bottom of footings.
- Detail Letter / Sheet Number
- Elevation at point indicated.

APPROVED: Lee B. Kline — ARCHITECTS
Lawrence Nowell — ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
APPL. NO. 25220
DATE MAR 28 1962
PRINCIPAL STRUCTURAL ENGINEER

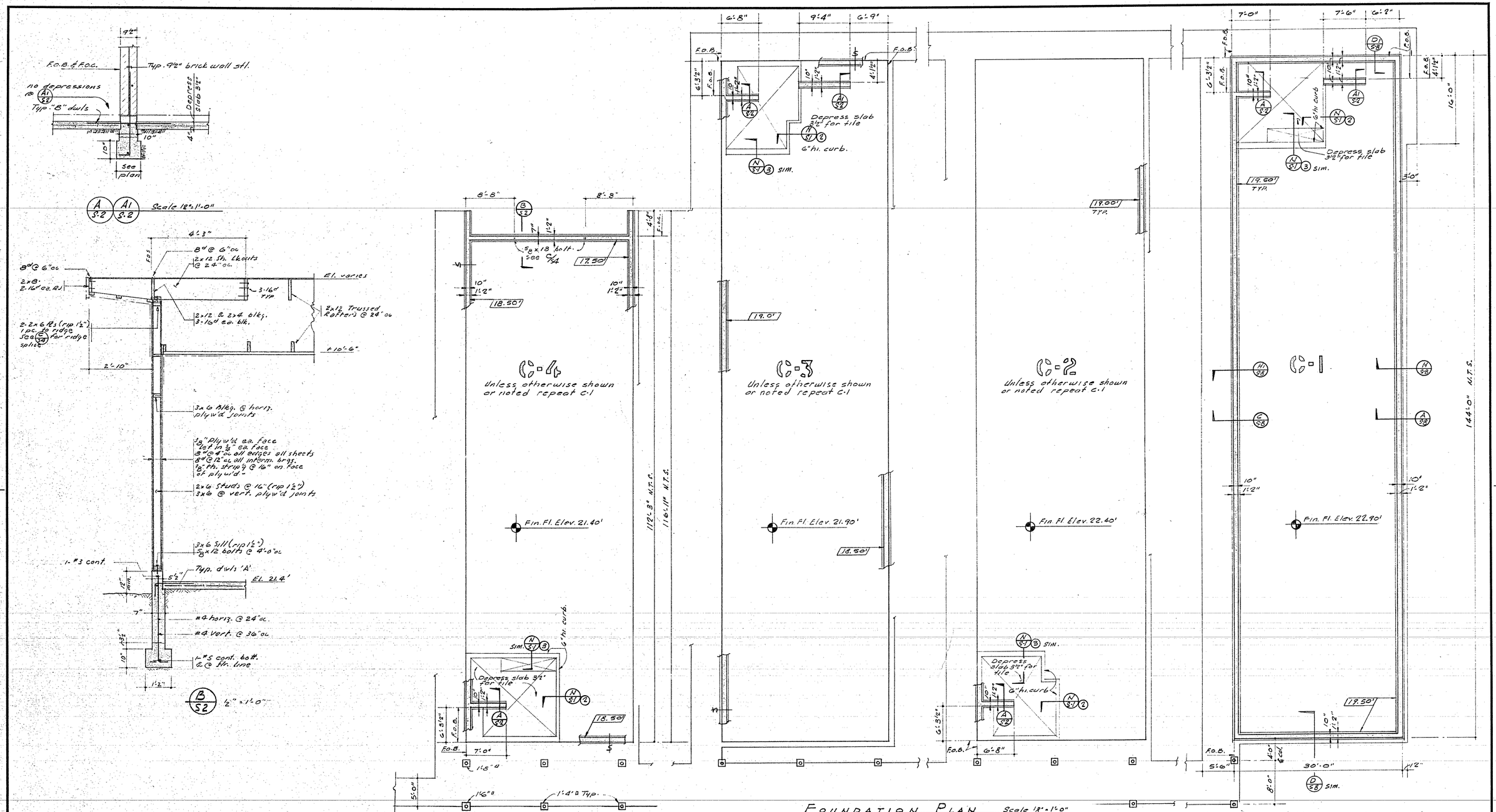
APPROVED: FOR THE DISTRICT
T. H. Caplinger
John F. Faidley

SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
616 W. 5th STREET MA 4-0748
LOS ANGELES 17, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/29/62
DRAWN BY
DRAWING NO. S-1
OF 52



FOUNDATION PLAN Scale 1/8" = 1'-0"

NOTE: Refer to & check with Arch'l dwgs for various floor slopes, curbs, steps, walks, drains, & etc. & dimensions not shown.
All slabs on soil to be reinf. with 6"x6" 1#10x#10 W.W.F. @ middepth of slabs unless otherwise noted.
F.O.B. = Face of brick F.O.C. = Face of concrete

APPROVED:	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT	HILLMAN & NOWELL STRUCTURAL ENGINEERS	LEE B. KLINE, ARCHITECT, A.I.A.
Lee B. Kline ARCHITECT	22220 APPL. NO.	J. N. Edelmund	COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	816 W. 5th STREET MA 4-8748 LOS ANGELES 17, CALIFORNIA	963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241
Lawrence Nowell ENGINEER	MAR 28 1962 DATE	L. Morgan PRINCIPAL STRUCTURAL ENGINEER			DATE OF DRAWING 3/28/62 DRAWN BY L. Fenton DRAWING NO. S-2 OF 52

C:4 C:3 C:2 C:1

15 Pipe Column Spaces @ 18'-0" o.c. = 270'-0"

3# X-str. pipe col. 2'-6"ø

Typ. 3'-6" Std. pipe col. Typ. 1'-4" Sq. pier

Typ. ℄ of pipe cols & edge of conc. walk

Typ. Rec'p out

8 Pipe Col. Spaces @ 12'-0" = 96'-0"

4 Pipe Col. Spaces @ 20'-0" = 80'-0"

5 Pipe Col. Spaces @ 13'-0" = 65'-0"

See Arch'l for weep holes in conc. Pkg.

See Arch'l for wall holes in conc. Pkgs.

MI^D

AL

LANTING

SHELTER

Kindergarten Fnd' Plan See Sht. no. S-4

Fin. Flr. El. 21.4' 4" conc. slab

Fin. Flr. El. 21.9 4" conc. slab

Add 2'-6" wall behind 18B/5 For location of 18B/5 see roof plan.

Depress slab 3½"

6" H.D. curb typ. as shown

2'-10½" x 10" pad 4-#8 Transv.

2'-10½" x 10" pad 4-#8 each way

Typ. 8'-4" x 4'-0" pipe col. typ.

12" deep scoopout

Expansion Joint

Center fig under 11'-0" wall

4-#4 ⊥ to wall

2'-0" x 2½" Std. tube rail. Fin.

2'-6" x 2½" Std. tube rail. Fin.

2'-2" x 10" ftg. typ.

2'-4" x 10" ftg. typ.

2'-6" x 10" ftg. typ.

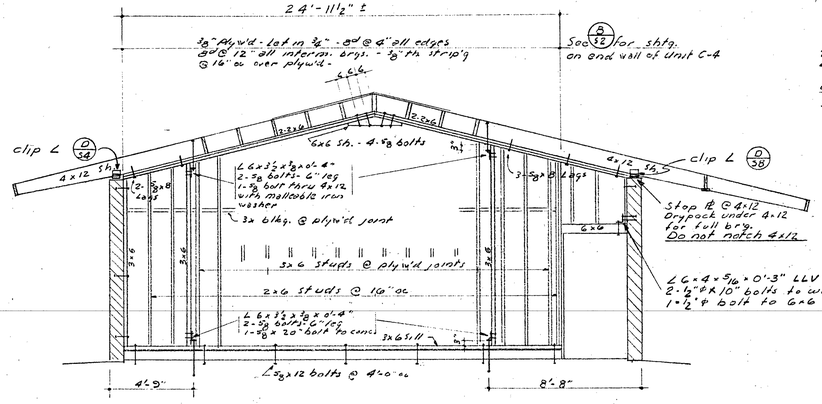
3'-4" x 10" ftg. typ.

FOUNDATION PLAN for MI^D-AL & SHELTER

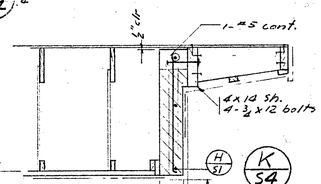
Scale: 8'=1'-0"

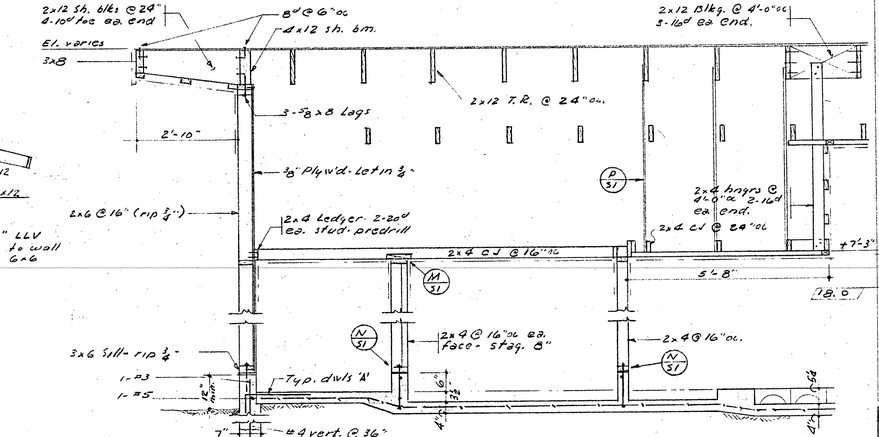
NOTE: Refer to & with Arch'l drwgs for various floor slopes, curbs, steps, walks, drains, etc. & dimensions not shown. All slabs on soil to be reinf. with 6x6 10x10 W.W.F. @ mid-depth of slab unless otherwise noted.

APPROVED: Lee B. Kline ARCHITECT	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECT 22220 APPL. NO. MAR 29 1962 DATE	APPROVED: FOR THE DISTRICT T.M. Eastwood	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS 816 WEST 5th ST. LOS ANGELES 17	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 5/28/62 DRAWN BY H.T. DRAWING NO. S-3 OF 52
ENGINEER	PRINCIPAL STRUCTURAL ENGINEER					

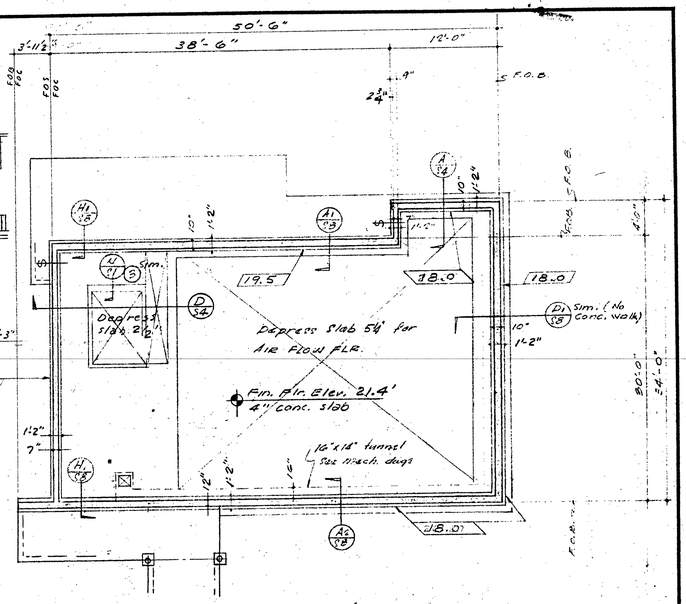


C/S4 ¼" = 1'-0"



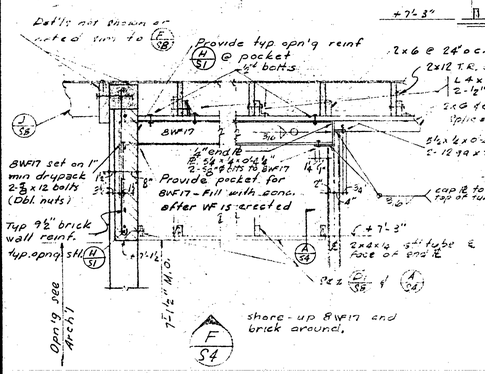


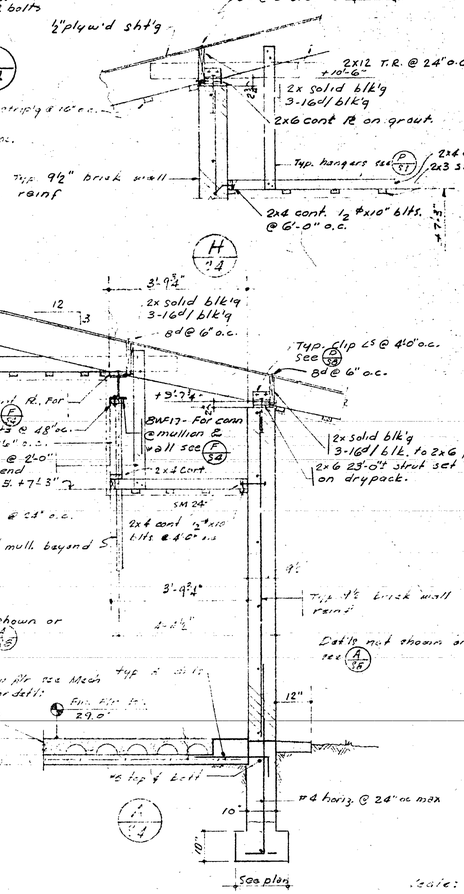
D/S4

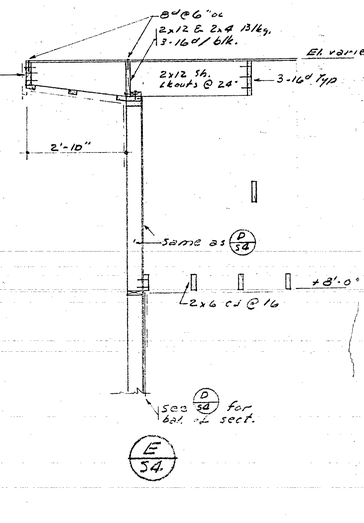


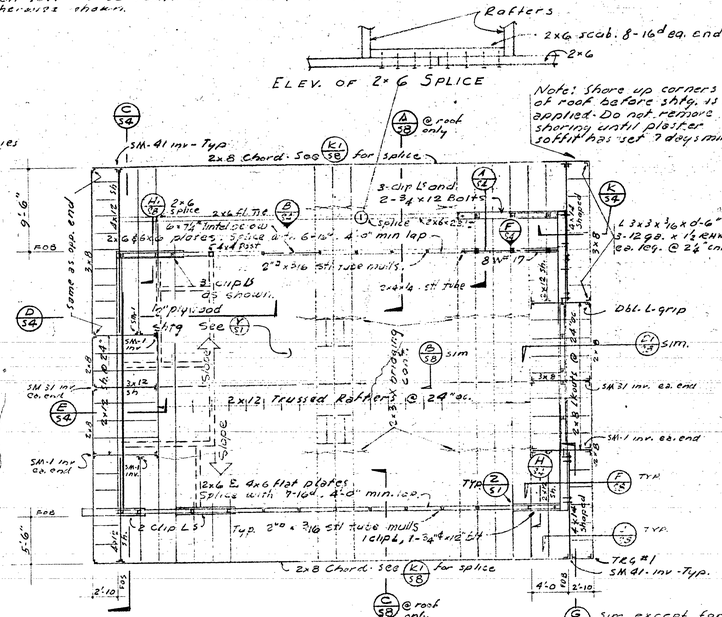
KINDERGARTEN FOUNDATION PLAN Scale: ⅛"=1'-0"

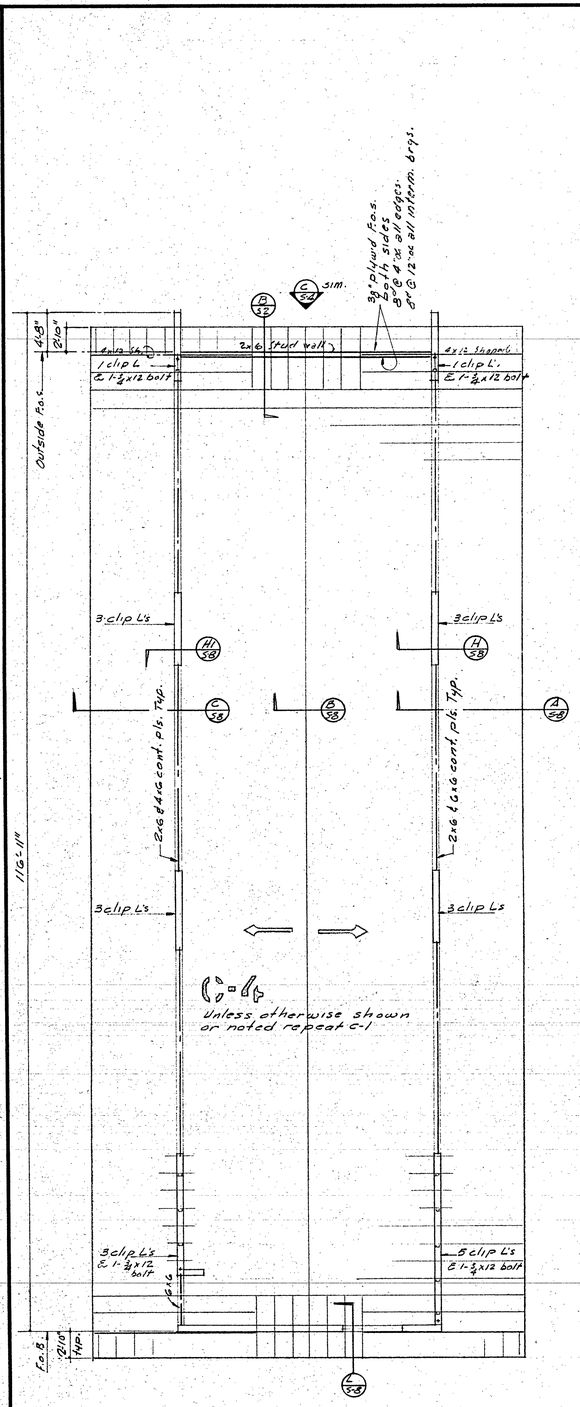
NOTE: Refer to & with Arch'l drwgs for various floor slopes, curbs, steps, walks, drains, & etc. All slabs on soil to be reinf. with 6x6/10x10 W.W.F @ mid-depth of slabs unless otherwise shown.

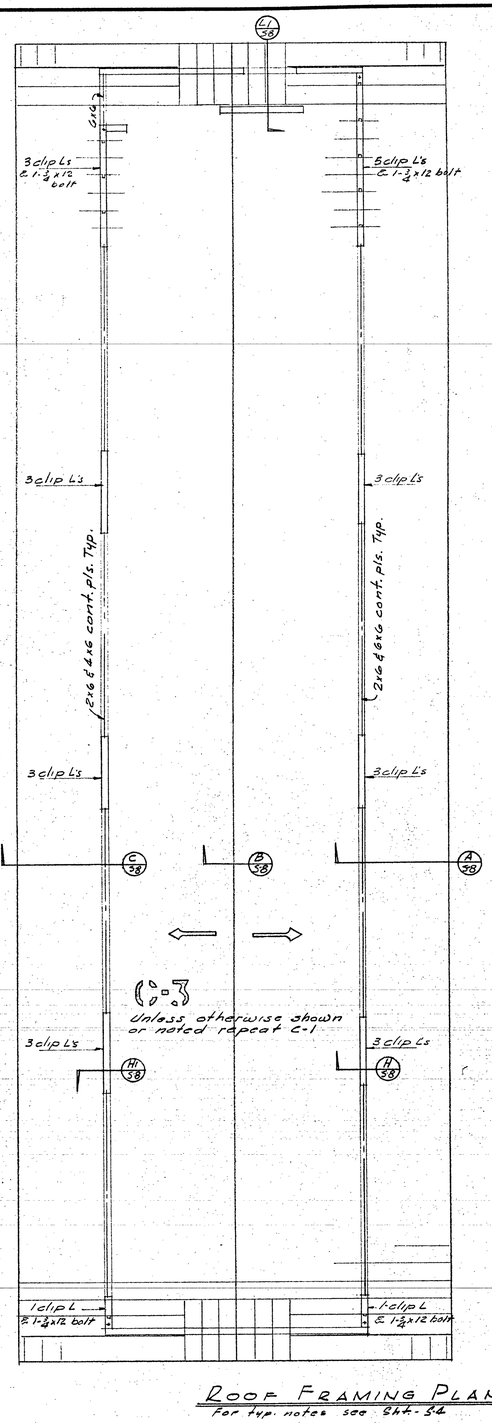


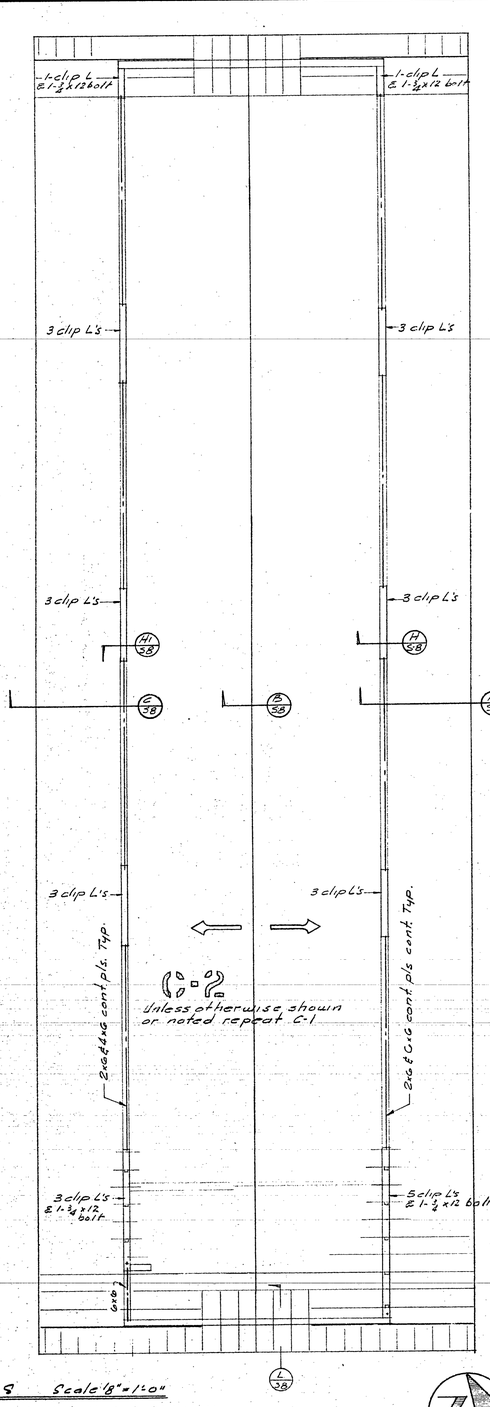


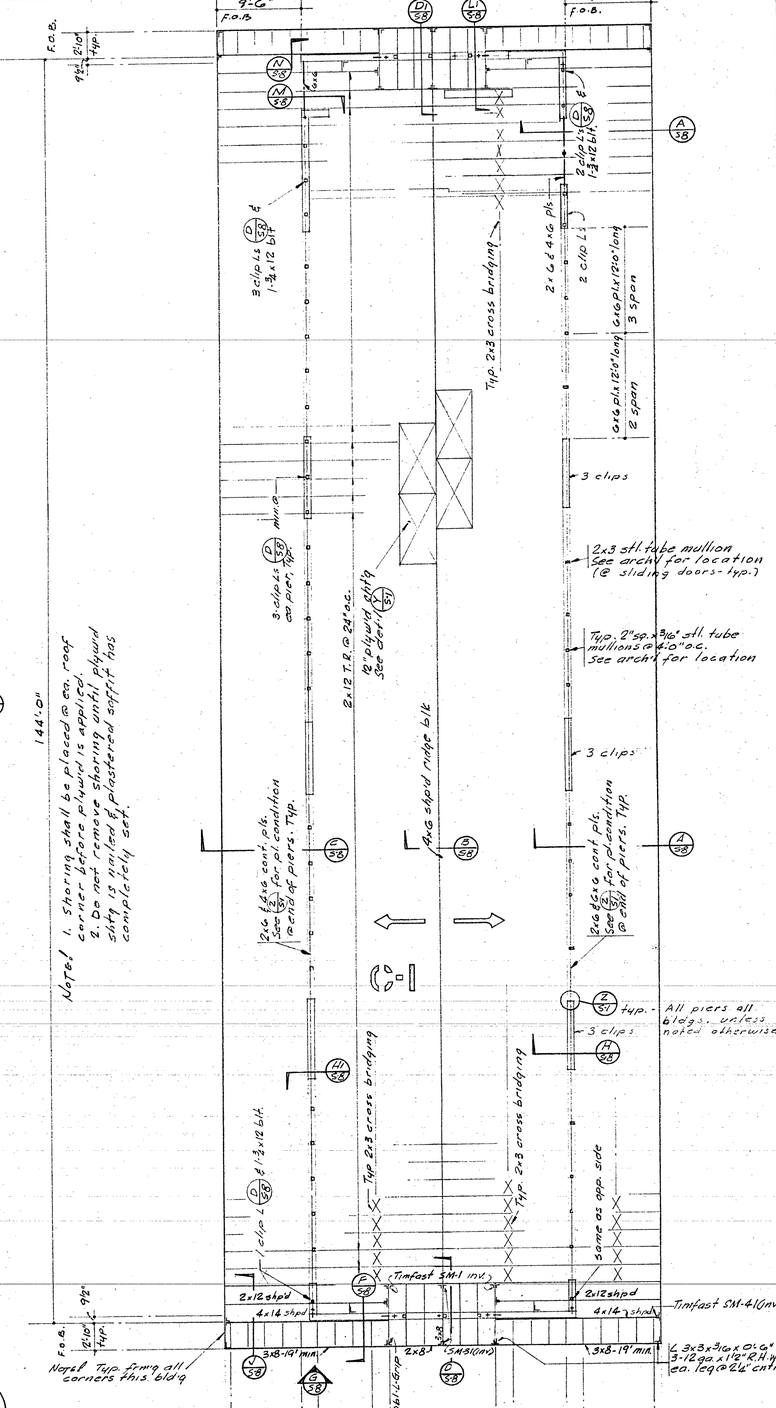



Rafters
2x6 scab. 8-16d ea. end
2x6
ELEV. OF 2x6 SPLICE
Note: Shore up corners of roof before shtg. is applied. Do not remove shoring until plaster soffits has set 7 days min.
C/S4
SM-41 inv - Typ
2x8 Chord - See K/S8 for splice
A/S8 @ roof only
3-clip L5 and 2-¾ x 12 Bolts
Splice 2x6x4'-0"
2x6 splice
2x4 Post
2x6 Splice
2x4 Flt. Tie
B/S4
2x6 Splice
2x6 Flt. Tie
2-2"x3½" Flt. tube mulls
3 clip L5 as shown for plywood
Same as D/S4
Sl'g See K/S1
SM-1 inv.
SM-1 inv. ea. end
2x12 Sh.
2x8 Chord
2x12 Trussed Rafters @ 24" oc.
SM-1 inv. ea. end
SM-1 inv.
SM-1 inv. ea. end
12x6 E. 4x6 flat plates. Splice with 7-16d, 4'-0" min. lap
2 clip L5
Typ. 2"⌀ x 3/16 Flt tube mulls 1 clip L, 1-¾"⌀ x 12" L.H.
2x8 Chord - See K/S8 for splice
C/S8 @ roof only
8'-9"
8'-9"
8W17
Dbl. L-grip
L 3x3x¼x0'-6" 3-12.99 x ½ F.HWS ea. leg. @ 24" centers
E/S4
SM-1 inv. ea. end
SM-1 inv. - Typ.
TYP.
TYP.
TYP









ROOF FRAMING PLANS

Scale 1/8" = 1'-0"

For typ. notes see Sht. S-4

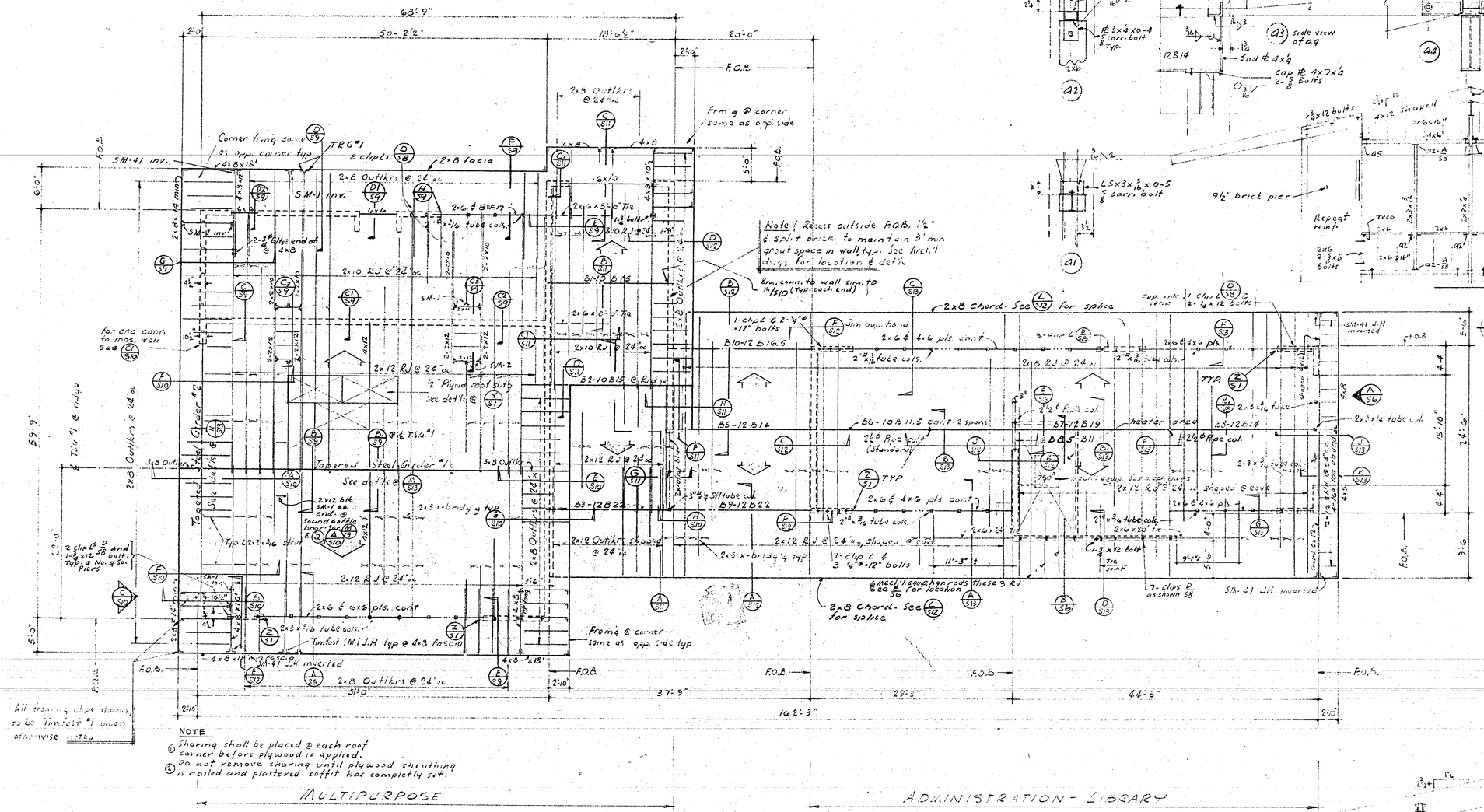
APPROVED:	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE	APPROVED: FOR THE DISTRICT
ARCHITECT	APPL. NO. 22220	
ENGINEER	DATE MAR 28 1962 — PRINCIPAL STRUCTURAL ENGINEER	

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
816 W. 5th STREET MA 4-8748
LOS ANGELES 17, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/28/62
DRAWN BY L. Fenton
DRAWING NO. S-5
OF 52



NOTE
① Shoring shall be placed @ each roof corner before plywood is applied.
② Do not remove shoring until plywood sheathing is nailed and plastered soffit has completly set.

MULTIPURPOSE

ADMINISTRATION - LIBRARY

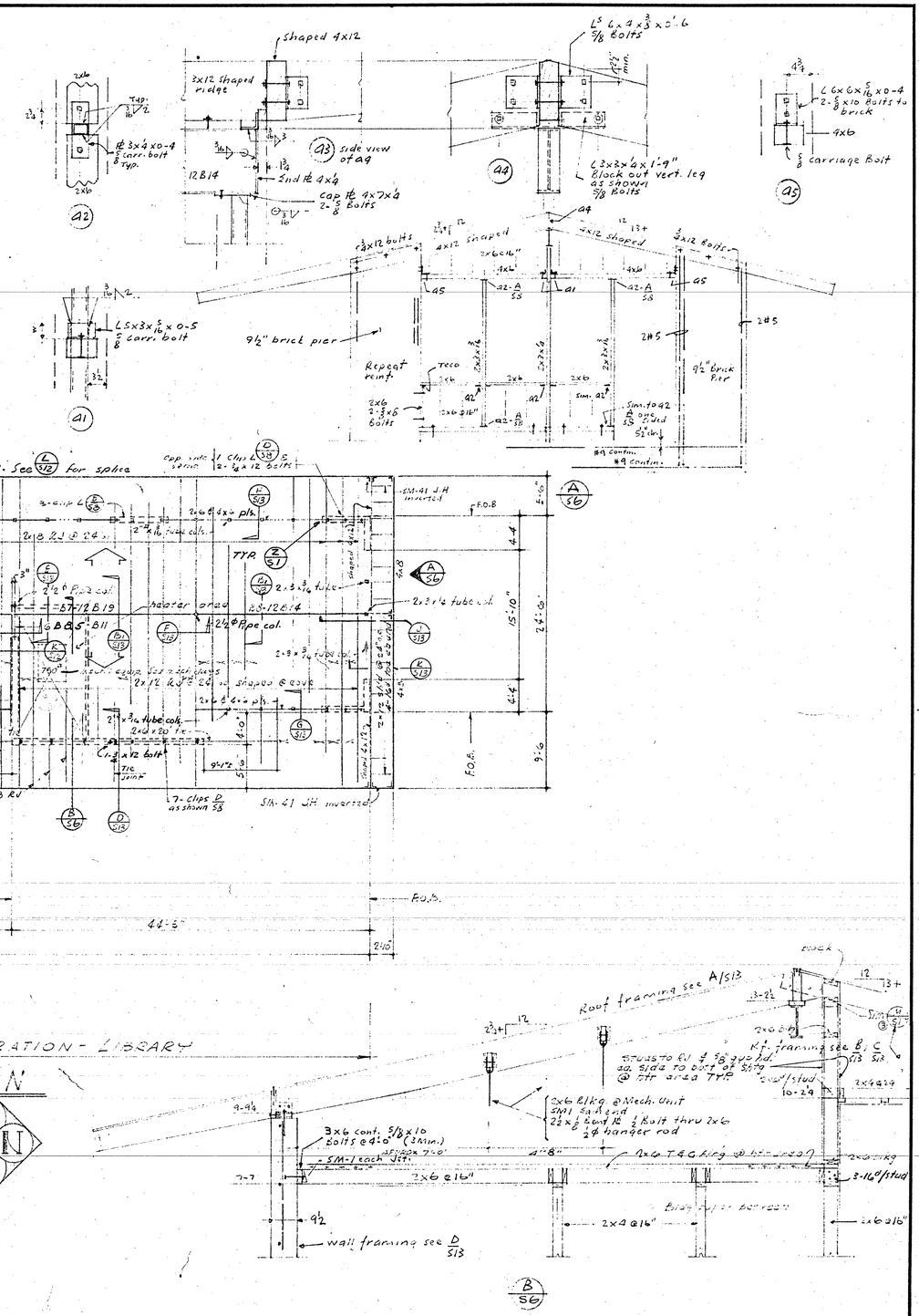
ROOF FRAMING PLAN

Scale: ⅛" = 1'-0"

Refer to & check with Arch'l dwgs for various roof slopes, saddles, drains, vents, gutters, dimensions not shown, etc.

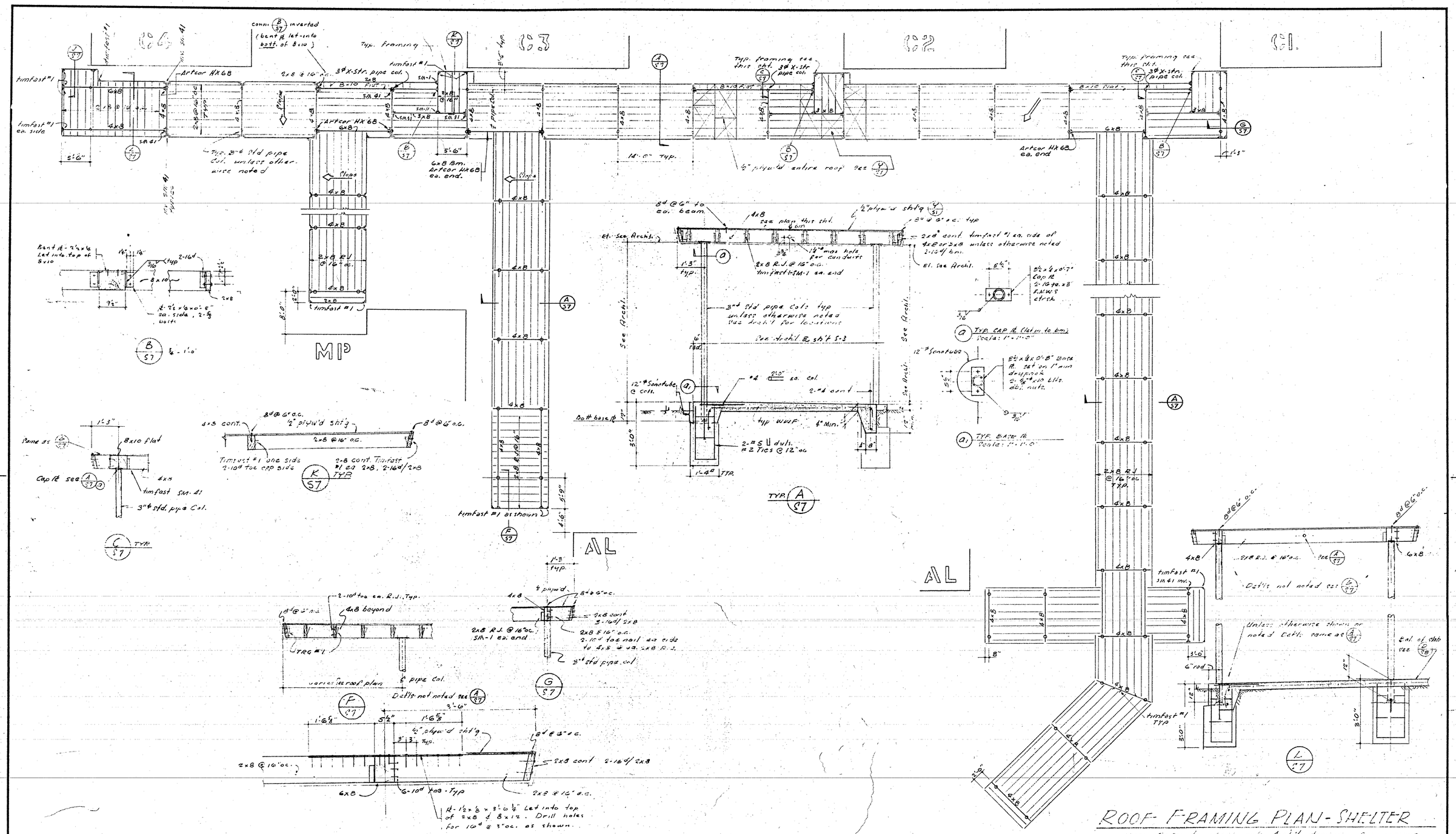
F.O.B. — Face of brick

F.O.S. — Face of studs



APPROVED:	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT	HILLMAN & NOWELL STRUCTURAL ENGINEERS	LEE B. KLINE, ARCHITECT, A.I.A.
Lee B. Kline ARCHITECT; Lawrence Nowell ENGINEER	22220 APPL. NO. MAR 28 1962 DATE; E. Morgan PRINCIPAL STRUCTURAL ENGINEER	J. H. Eastwood; John F. Lund Jr.	COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	Lawrence Nowell	963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/28/62 DRAWN BY F. Stiller DRAWING NO. S-6 OF 52



ROOF FRAMING PLAN - SHELTER

Note: Refer to check with Arch'l drawing for various roof slopes, gutters etc. & dimensions not shown

Scale: ⅛" = 1'-0"

Scale: ½" = 1'-0" unless otherwise noted

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

22220 APPROVED MAR 28 1962

APPROVED: Lee B. Kline
ARCHITECT
Lawrence Nowell
ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
APPL. NO.
DATE
PRINCIPAL STRUCTURAL ENGINEER

APPROVED: FOR THE DISTRICT
F. N. Eastwood
J. M. F. Land, Jr.

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
816 WEST 5th ST. LOS ANGELES 17
Lawrence Nowell

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/28/62
DRAWN BY
DRAWING NO. S-7 OF 52

Typ. clip ∠ 4 x 3½ x ½ x 0'-5½" LLV — Typ. clip L @ 4'-0" o.c. max. — ½" plywd sht'g

2x8 outlkrs @ 24" o.c.
3x8 outlker @ ridge
2-½" Lift to 2x8
1-½" ø x 12" to brick
2x12 T.R. @ 24" o.c.
2x6 @ 24" o.c.
2x2 strip'g @ 16" o.c. @ Lunch and Custodian & Heater rooms
2x8 strip'g @ 16" o.c.
2x6 cont. fr. set on drypack
2x6 Sc36 ea. C'bout 3-16ø - Typ.
2x10 blk'g 3-16ø / blk.
3x8 cant. Exp. C-grip ea. side fascia see Archt.
2x4 Ledger @ 2'-0" o.c.
2x4 cl.
Cant & kindergarten walks hung dry rooms
Typ. 8" Brick wall reinf.
Dwlt to match wall reinf.
5'-0"
4'-0"
Condition occurs @ only. See shelter details
Typ. 8" dwlt @ typ. "A" dwls
Drains & slots: rms. only
Conc. walk @ classroom only see for det'ls
Air flow flr @ kindergarten only See
See Mech. dwgs
5'-5" @ kindergarten
+7'-3" @ kindergarten
El varies
8d @ 4" o.c.
+10'-6" top fr.
3-16d
Typ. clip ∠ @ 4'-0" o.c.
Typ. 9½" brick wall reinf
Dwlt to match wall reinf.
Typ. "A" dwlt.
Conc. walk @ Classrms
Slope conc. walk see Archt
¼" cant
No splice
typ. "A" dwlt
Typ. 9½" brick wall reinf
9'-6" @ kindergarten
info. not noted see
8d @ 6" o.c.
2x6 & 4x6 cant fr. Splice see
Set trench cover & forms to pour conc. over runner & mark. see Struct. Pour all sections & provide 12" blkg. paper separators & sisal & anchors.
Air flow flr @ kindergarten only. See Mech. dwgs for det'ls.
typ. "A" dwlt
Typ. "A" dwls
See
"6 cant top of batt.
(Depress top bar @ recessed door hinges)
10"
See Mech. dwgs
Typ. "A" dwls
See
Typ. 9½" brick wall reinf
Dwlt to match wall reinf.
Typ. "A" dwlt.
Conc. walk @ Kindergarten see for typ. det'ls.
Fin. Flr. El.
typ. "A" dwls
"B cant top of batt.
@ end of sill
See Archt'l
See Archt'l
See Plan
Typ. clip ∠ @ 4'-0" o.c.
See roof plans
+10'-6" top fr.
At high clg. grout up & rub with wall - Typ.
Details not shown or noted see
2x6 cant fr. rem. 1/4 in 1'-0" min. drypack
+7'-3"
2x4 C.J. @ 16" o.c. @ only
Typ. 9½" brick wall reinf
9½"
Dwlt to match wall reinf.
Typ. "A" dwlt.
Conc. walk @ only. Set for Det'ls
8x6 w. 6x8 in conc. & brick infill see
Typ. Truss of Rafter
2-4 C.J. @ 3'-24" oc.
2-4 Hntrs @ 24" oc.
2-1x6 T. ea. face
top of brick El +10'-3½"
2x6 cant
Louvers
+7'-6"-11½"
Typ. 9½" brick wall.
Door
8" plywd sht'g
2x12 shp'd purlins omitted for clarity
2x8 x 13'-5"
4x14 x 19'-0" ± shp'd
Det'ls not shown or noted see
Slot brick as req'd to achieve 3½" min. bond bm.
See
8" @ 6" o.c.
T.R.G. #2 ea. side of 2x6 @ 6th R.J.
2x4 Strut from to 2-16d ea. R.J. see sht'r 5-4 for splice
Notch shaped 2x12.
DRAG STRUT @ KINDERGARTEN
2x12 T.R. @ 24" o.c. shp'd to 2x8 @ eave
2x solid blk'g - 3-16d / blk'g
8d @ 6" o.c.
top of R.R. +10'-6"
½" plywd sht'g
Typ. 2x8 cross bridg'g @ midlength of overhang.
12
3
3-16d ea. R.J.
2x8 cant. Splice see
& kindergtn
Fasc'a & Eave det'ls see Archt'l
TR.G. #2 @ 4'-0" o.c. (TYP.)
2x6 cont. @ 16d / 2x4
2x8 strip'g @ 16" o.c.
2x8 @ 24" o.c.
4-16d / T.R.
3½ typ.
4'-6"
7½"
12"
2 sides
R: 2½ x 2½ x ½"
2-16 ga x 3" R.H.W.S. @ Cap fr. - contrsk.
2-½" x 12" bolts @ base fr.
Note: let cap fr into lintel.
A TYP. CAP & BASE fr's FOR 2" x 5½" MULLIONS
Scale 1"=1'-0"
8d @ 6" o.c.
2x6 Blk @ Hdrs. SM-1 ea. end
2½ x ½ boot fr w/ 1-½ bolt thru ea. & ½ø hngr rod
2x6 @ 24" o.c.
Fix & hangers / T.R. 4-8d ea. end
2x12 T.R. @ 24" o.c. cut for full bearing @ ridge
2-2x6 cont. fr. 2-16d / 2x6 OJ
2x6 x 4'-0" splice pc 10-16d ea. side of splice.
2x6 @ 6x8 cant fr's 4'-0" min. lap - 12-16d ea. side of splice
2" ø x ¼" stl. tube mullions @ 4'-0" o.c. See Archt for location
5x8 strip'g @ 12" o.c.
10-16d - 2x12 to 2x6
Typ. clip ∠ @ 4'-0" o.c.
See roof plans
+10'-6" top fr.
8d @ 6" o.c. stagg
4x6 shp'd ridge blk
½" plywd sht'g
T.R.J. El. +15'-1"
½" Plywd. 36x8-12" wide - 5-3d ea. side of ridge
L 6x6x⅜ x 0'-6"
1-⅞ø bolt
L 6x6x⅜ x 0'-6" 1-⅞ø bolt
Brick wall
4'-2"
4"
14"
23"
4"
12"
14"
2x6
6x6
Drypack
+10'-0"
+10'-3½"
L-6x6x⅝ x 0'-8" 2-⅞ø x 8" bolts
(N) S8
1" = 1'-0"
(M) (M)
12
3
Typ. clip ∠ @ 4'-0" o.c.
See roof plans
+10'-6" top fr.
At high clg. grout up & rub with wall - Typ.
Details not shown or noted see
2x6 cant fr. rem. 1/4 in 1'-0" min. drypack
+7'-3"
2x4 C.J. @ 16" o.c. @ only
Typ. 9½" brick wall reinf
9½"
Dwlt to match wall reinf.
Typ. "A" dwlt.
Conc. walk @ only. Set for Det'ls
7½" x ½" bltg.
1-¾" x 12" bolt
8" 6"
6" 8"
1'-11½"
1'-5"
8" plywd sht'g
2x8 x 13'-5"
2x12 shp'd purlins omitted for clarity
4x14 x 19'-0" ± shp'd
Det'ls not shown or noted see
Slot brick as req'd to achieve 3½" min. bond bm.
See
8d @ 6" o.c.
2x8 blk'g @ 25" o.c.
2-10d toe ea. side ea. end.
add 3" o.c. over blk
El varies
½" clr
2-16d blk
L-6x3½ x ⅜ x 2'-4"
1-⅝ø x 10" bolt to wall
1-⅝ø bolt to 3x6 blk.
See roof plan for location
3x6 blk'g
1" ±
4x14 shp'd - ⅞ø x 12" bolts. See for location
2'-10"
typ. 9½" brick wall reinf.
2 sides
R: 6 x 4 x 0'-8"
2-16 ga. x 5" R.H.W.S. @ Cap fr. - contrsk
2-¾" x 12" bolts @ 2 ends fr.
Note: let cap fr into lintel soffit.
B TYP. CAP & BASE fr's FOR 3" x 5½" MULLIONS
Scale 1"=1'-0"
Typ. Clip ∠ @ 4'-0" o.c.
See roof plans
+10'-6" top fr.
Details not shown or noted see
2x6 cant fr. rem. 1/4 in 1'-0" min. drypack
+7'-3"
2x4 C.J. @ 16" o.c. @ only
Typ. 9½" brick wall reinf
9½"
Dwlt to match wall reinf.
Typ. "A" dwlt.
Conc. walk @ only. Set for Det'ls
8x6 w. 6x8 in conc. & brick infill see
Typ. Truss of Rafter
2-4 C.J. @ 3'-24" oc.
2-4 Hntrs @ 24" oc.
2-1x6 T. ea. face
top of brick El +10'-3½"
2x6 cant
Louvers
+7'-6"-11½"
Typ. 9½" brick wall.
Door
Typ @ all corners
8d @ 6"
12-3x4 x 0'-7"
2-⅝ø bolts @ 4½" o.c.
8d @ 4" o.c.
Occurs @ ea. end of interior brick wall.
Split brick for plaster
+10'-0"
Extend bars 4'-0" ea. side at opng.
1-⅝ø to bolt + 10'-11½" T.S.
2 L 2½ x 2½ x ¼
2'-10½"
2x4 to rem. length of brick wall ⅝ø x 6'0" o.c.
+7'-4"
1'-1½"
9½"
+7'-4 3/8"
Brick wall @ angle brace @ only
El varies
PLAN
2x8 Chord
1½" S.S.S.L.G.
Cut to bear
ELEV.
R: 3½ x 3½ x 0'-9" ea. side
2-¾ bolts ea. end.
R: 3 x 4 x 2'-1" ea. side
2-¾ bolts ea. end.
K K1 TYP. SPLICE for 2x8 & 8x8
K1 @ KINDERGARDEN
2 sides
R: 6 x 4 x 0'-8"
2-16 ga. x 5" R.H.W.S. @ Cap fr. - contrsk
2-¾" x 12" bolts @ 2 ends fr.
Note: let cap fr into lintel soffit.
C TYP. CAP & BASE fr's FOR 3" x 5½" MULLIONS
Scale 1"=1'-0"
2x10 shp'd blk'g @ 24" o.c. see roof plan
2-10d to wall ea. side 2-10d @ fascia
8" @ 4" o.c.
2x8 shp'd T.R. @ 24" o.c.
El. varies
add 3" o.c.
Water with cove @ corners see Archt.
L 8x8 stirrup @ 12" o.c.
2x4 cont. 16d @ 12" o.c.
4x14 Shaped
TYP.

Unless otherwise noted Scale: ⅜"=1'-0"

APPROVED: Lee B. Kline ARCHITECT; Lawrence Nowell ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE 22220 APPL. NO. MAR 28 1962 DATE; PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS LOS ANGELES 17	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/28/62 DRAWN BY — DRAWING NO. S-8 OF 52

End of 2x12 R.J.

3-16d/2x solid blkg

Top of plt. +12'-6"

1/2" Plywd shtg @ (Y/S1)

3d @ 6"oc

2x5 x 10'-0" Outlkrs @ 24"oc

3-16d to R.J.

Same as (D/S9)

2x12 RJ @ 24"oc

Typ hgrs. (P/S1)

1x4 cont, 2-8d 'CJ

2x4 CJ @ 24"oc

+12'-11"

2x6 cont.

3-16d/RJ

1x4 hgrs @ 24"oc

2x6 cont pl.

2x3 strp'g @16"oc

TRG #2 @ 4'-0"oc.

2x6 & 6x6 pls cont, top 8'-0" min. @ splice use 16-16d ea side splice

2x3 x 3/16 stl. tube col. See (A/S2) & (A/S10) for Cap & Base dtls. (RHWS in base pl.)

5'-0"

3'6"

3"

Face of brick beyond

Face of studs

2x6 studs @ 16"oc

3'3 3/8"

8x6 Sill pl. cont. set on 1" min. drypack 5/8"ø x 12" bits @ 4'-0"oc

Fin. Flr. El. 21.4'

Typ 'A' dwls

#5 cont

6" cont

#5 cont typ @ flr slab & @ bott of ftg.

#4 @ 18"oc vert'l

See Fndn plan for size & both of ftg elev

(A/S9)

Typ Clip L (D/S8) see roof plan

Top of plt. +13'-6"

8d @ 6"oc

#5 cont @ flr slab

2x4 CJ @ 24"oc

4x8 (see detl)

Notch hgrs as req'd

Bott of CJ +12'-11"

2x4 cont, 5/8"x10" Lll @ 6'-0"o.

2x6 & 12 fram en drypack (A/S9)

For all detls this section, refer to (A/S9) unless noted otherwise

Typ 9½" brick wall reinf

Fin. Flr. El. 21.4'

Typ 'A' dwls

Ftg. detl's same as (C/S9)

See Fndn. Plan

(E/S9)

Ridge

3d @ 6"oc staggd

5-16d @ 12" min. lap

3x8 solid blkg @ ridge

½" Plywd

+18'-2"

2x6 cont pl.

5/8ø N.S. blts @ 4'-0"oc

T.S.G. #/ see detl's @ (M/S13)

Clip L (A/S10) @ 4'-0" oc.

Typ hgr. see (P/S1)

2x4 CJ @ 24"oc

(B/S9)

Butt 4x12's

8d @ 6"oc staggd

Clip L (B1/S9): L- 4x3½x½ x 1'-0" LL V. 2- 5/8ø Bolts @ 9"oc. in 4" leg 1- 1 1/16" hole in 3" leg

4x12

T.S.G. #/ 3/16 @ 2-6

3/16 x 2" Ea side ea. ftg.

4" Stiffener ea. side.

L 2½ x 2½ x ¼ 1-5/8ø bolts to RJ 1-5/8ø blt to stiff'r

L BRACING (B1/S9) @ ℄ T.S.G. ONLY

Clip L (A/S10) near center of bm.

8d @ 6"oc

Top of plt +9'-10"

+9'-4½"

2x3 Strp'g @ 16"oc

8 W 17 - See (H/S9) (E/S9) (F)

2x6/12 ½ø Nelson studs @ 4'-0"oc.

See eave detl's @ (A/S9)

Face of brick beyond see (D/S9)

2" x 5/16 stl. tube col. as shown. Typ. each end of tile panel

(KK/S4)

Bott of CJ +12'-11"

2-A (one sided)

2x4 @ 16"

3"

3x4 Sill embs. of 2-5/8ø x 12 Bolts

Typ 'A' dwls

4-A (sidesws)

Ftg. detl's same as (C/S9)

See Fndn. Plan

(F/S9)

CAP PLATE PL 5"x4"x0'-0 3/4" 2-¾ø FH mach. bolts - countrsk

(f)

Top of section same as (F/S9)

12" x ¼ stl. tube mull. behind.

(M/S9)

(S/S4)

9½"

Typ. 9½" br. wl. reinf.

Fdn. Same as (F/S9)

(F1/S9)

2x4 Flat @ 16" ctrs. 2-16d ea end

2x4 Ledger 5-16d as shown

Duct

12'-11½"

2x10

5M1

(C3/S9)

Clip L (D/S8) @ 4'-0"oc

Butt Rf. Jts.

12'-6" plywd scab one side RJ & 8d ea. side of jnt.

8d @ 6"oc

3-16d/2x solid blkg Top of plt. +13'-5½"

½" Plywd shtg (Y/S1)

2x4 CJ @ 24"oc

+12'-11"

1x4 hanger @ C.J. 2-8d ea. end

2x6 cont pl. set on grout

End of 2x10 R.J.

2x10 RJ @ 24"oc

3-16d to RJ

2x3 strp'g @ 16"oc to RJ @ (C/S9) only

(P/S1)

2x4 cont. 5/8 x 10" bits @ 6'-0"oc

12x4 CJ @ 24"oc

2x3 strp'g @ 16"oc For conn see (V/S1)

2x6 c.j. @ 16" no strp. no hang. @ (C/S9)

9½"

14'-11½"

Typ 9½" brick wall reinf

#5 @ 22"oc ea way @ ℄

(C/S9) (C1/S9) (C2/S9)

9'-4½" F.o.c. ftg. elev.

Dwls to match wall reinf all bent

F.o.c. & F.o.c.

Typ 'B' dwls

#5 cont 5'-4" down from top of flr slab @ (C/S9) (C1/S9) (C2/S9)

#5 cont @ flr slab & @ bott of ftg TYP

See Fndn plan for size & both of ftg elev.

Typ 4'

10"

Clip L (D/S8) @ 4'-0"oc

Notch for full bearing

8d @ 6"oc

½" Plywd shtg

2x8 Outlkrs @ 24"oc 12" long ea.

End of 2x8

For frm'g see (C/S9)

2x4 cont. 5/8 x 10" bits @ 6'-0"oc

Top of plt +9'-10"

TRG #2 @ 4'-0"oc

2x6 pl. cont. on drypk

For save detls. see (A/S9) & Arch't.

6'-0" (C/S9)

Typ 9½" brick wall reinf

4'-9" N.T.S.

Detl's not noted o/s (C/S9)

Fin. Flr. El. 21.4'

Typ 'B' dwls

See Arch't drgs for slopes

Ftg. detl's same as (C/S9)

F.o.c. & F.o.c.

2"ø cont

(D/S9)

Rf. framing see D/S9

9-10

2x6 @ 16"

2x6 @ 16"

6x6

1¾"

Post & stirrup

(D1/S9)

(d)

L 6x4x½x0'-4 2-⅝ x 10 Bolts to brick ⅝ Bolt thru 6x6

6'-6" 6x6

(d) Typ. both ends

Rf. framing see D/S9

2x6 @ 16" conn. each end see (E/S1)

(D2/S9)

(C/S9) (C1/S9) (C2/S9)

F.o.c.

8d @ 6"oc

½" Plywd shtg

2x8 cont @ facia See Arch't for detl's

2x3 Strp'g @ 16"oc

8d @ 6"oc

2x8 Outlkrs @ 24"oc

3-16d

2x10 RJ @ 24"oc

2x4 cont. with 3/8ø strp @ 2x8 outlkrs 2-16d/2x8

Turn bars as / Outlkrs

2x3 strp. @ 16"oc

Clip L (D/S8) @ 4'-0"oc.

Cut Lr. to match slope of roof both sides

2'-10"

5½"

#5 x 4'-0"

Typ. 9½ brick wall reinf.

Fin. Flr. El. 21.4'

Typ 'A' dwls

See Fndn.

(G/S9)

Low hydrogen rod.

4'-2"

8 W 17

3"

6"

12"ø open hole in web

(H/S9) ½" = 1'-0"

PL 2½ x ½ x 1'-4½"

2x6 T.C. beyond

2-⅝ Carr. bolts PL to 2x6

9½"

3"

1'-4"

2-⅝ x 10 bolts

(K/S9) ½" = 1'-0"

3/16 Bolt-up PL

2-½" x 13" Lll's

BASE DETL

(A/S9) ½" = 1'-0"

Scale: ½" = 1'-0" Unless Otherwise Noted

APPROVED: ARCHITECT / ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECT — APPL. NO. — DATE — PRINCIPAL STRUCTURAL ENGINEER

APPROVED: FOR THE DISTRICT

SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT

COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.

963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 5/28/62

DRAWN BY F. Stuller

DRAWING NO. S-9 OF 52

F.O.B.
2'-10
3'-6"
5¼"
℄ TSG #2
Clip L (A/S10) @ 4'-0" o.c.
½" Ply w/ Stdy @ (Y/S7) 8"@6"oc
2x6 @ 12"
2x8 cont (J/S10) Sill
2x3 Strp @ 16"oc
3-16d / 2x solid bldg
2x6 nailer Cont
2x3 Cont. Top & Bott. TSG #2
½"ø Nail studs @ 4'-0"oc. typ.
2x3 flat @ 16"oc. 2-10d toe eq. end.
TSG #2, see det'l @ (N/S13)
2x6 nailer cont ½"ø nelson studs @ 4'-0"oc.
2x8 Outlkrs @ 24"oc.
Timbrtst #1/ outlkr (3x8) Outlkr @ ridge
3-16d Flt
TSG #2
4-⅞ø blts to stiff. ℄
L 6x3½x¼ cont
2-⅞ø blt to TSG #2
2-⅞ø blts to stiff. ℄
4" Pl. welded to flg.
2x4 CJ @ 24"oc
2x4 cont, 2-16d/stud
℄ TSG.
2½"
2¾"
F.O.S.
2x6 studs @ 16"oc
12'-11" Bost. Cut
@ brick wall beyond see findn plan
3x6 Sill pl. cont set on 1" min. sq. sack ⅝ø x 12" blts @ 4'-0"oc
#3 cont
6" cont
Fin Flr El. 21.4
Typ 'A' dwls
#4 @ 36"oc vert'l alt bent
#5 cont @ flr slab
4 bott. of flg. typ
See Plan
A S10

Clip L (D/S6) @ 4'-0" o.c.
2x6 ℄ cont.
2x8 Outlkrs @ 24"oc.
El. Varies
4x8 Outlkr
1-¾ blt @ 1m6'd. end. see rf. plan
Det'l this section not noted, refer to (A/S10)
2x4 CJ @ 24"oc
(G/S10)
2x4 cont 5-⅝ø x 10" blts @ 6-0 oc.
8d @ 6"oc
F.O.B.
4¼"
2¾"
#5 @ 20" oc. each way
3-16d Typ
3/16 x 2½ U ⅜ø 1-⅜ bolt to blk.
SIM-1 ea. end
2x12 blk
½ ø hngr rod with dbl nuts see M 19
(a)
10½"
Dwls. to match wall reinf.
A.C. Paving
2'-1" Typ.
Typ 'A' dwls
1'-2" Clr.
11"
#5 cont @ flr slab
⅝ bott. of flg typ
4-#4
See findn plan for S.32 & bott. of flg elev.
B S10

Low hydrogen rod.
Inside face
#6 rebar (5'-0" long @ (C1/S10))
outside face
2-¾ x 15" bolts @ 3" ga. - dbl nuts
PLAN
For det'l not noted same as (A/S10)
End TSG.
(D/S10)
13-11/16" Top TSG.
Saw-cut brick ℄ eave as req'd
Clip L det'l @ (G/S9)
2x8 Outlkrs @ 24"oc
½" Plywd
8d @ 6"oc
+12'-11"
2x4 @ 24"oc 2-10d/ftr prednlt
2x4 cont
4x8 x 18" min
2x6 cont
Note! Provide #5 bar or tie for TSG #2 into wall. Cut hole in end ½, as req'd, for bar to pass
#5 @ 20" oc. each way.
T.S.G #2
⅝ø blts @ 4'-0"oc
2-¾ø x 15" anc. blts @ 3'oc use double nuts.
Set TSG in place then pour chase
3'-9"
(B/S10)
C C1 S10
For det'l not noted see (C/S10) abv.
℄ T.S.G
8d @ 6"oc
5¼"
F.O.B.
Lay brick up then pour conc against
3/8" end ½ weld to end of TSG #2. Also provide hole in ℄ for #5 bar
TSG #2
outside
2-¾ø blts
Typ. 9½" brick wall reinf.
6" MIN.
16"
10½"
D S10

2x6 ℄ cont.
2x8 Outlkrs @ 24"oc
Timbrtst #1/ Outlkr
2x12 RJ @ 24"oc
3'-6"
2'-10"
F.O.B.
Clip L (D/S6) @ 4'-0" o.c.
8d @ 6"oc
1-#5 x 5' ctr. on TSG
Fill chge with conc. after set of TSG
Sl. varies
+ 18'-2"
3-16d
3x8 Outlkr & ridge
Lay brick up then pour conc against it.
Typ #5 x 5' Top of wall
1-#5 x 5'
12" Dr Brick
Tapered Stl. Girder #1/ (A/S11) Set TSG in place then pour chase
2-¾ø x 16' anc. blts. to wall
Conc. seat
2-¾ x 16 bolts.
8d @ 6"oc
2x12 x 16' Outlkrs @ 24"oc
2x12 RJ @ 24"oc
½" Plywd
Sl. varies
#5 to bd. of opng. below.
(2)
(H/S1)
+ 10'-0"
+ 12'-11"
3x8 cont ledger ⅝ø x 10" blts 4'oc
+ 9'-8½"
2x6 CJ @ 16"oc
2x6 cont 1'-5"
1-½ø bolt near end
2x6 studs @ 16"oc.
2-½ø x 8 bolts to Jamb studs
4x6 flat.
Typ 9½" brick wall beyond.
17¼"
L 6 x 3½ x ½ x 0'-8" LLH
1-½ø x 8 blt. to wall
1-½ø bolt to 4x6
(2)
face of wall
4x6 FLAT LINTEL CONN.
(2) 1"=1'-0"
Fin Flr El. 21.4
Typ 'B' dwls
5¼"
top stl down 5¼" @ drway (18)
For det'l see (P/S13)
See Plan
E S10

2x12 sond bldg @ strut only, see roof plan for location.
TRG flg side 5-8d
2x12 RJ @ 24"oc
2x8 x-bridg'g typ
2x4 roof plan for location
8d @ 6"oc
El. Varies
8d @ 6"oc
All det'ls this section not noted, refer to (A/S10)
T.S.G #2
L 2x2x¼ø strut @ x-br.dg'g see plan
2-½ø blts to ctr. brkg
1-½ø blt to T.S.G #2
F.O.B. beyond
℄ 12'-11"
+12'-11"
Det'ls not noted this section, same as (E/S10)
17'-9"
2x12 Outlkrs x 16' @ 24"oc. Shaped @ eave
½" Plywd
F.O.B.
2'-8"
Clip L (A/S10) Spaced as shown.
8d @ 6"oc
2x12 RJ @ 24"oc end wall
1-#5 x 5'-6" thru 1" ø hole in web - ctrd on brm.
2" ± 4½"
12 B 22
Top of plk. +11'-0"
4"ø - 4-½ø bolts
12 B 22 brg
2-#5 full ht. @ brm. conn. to wall. See findn plan.
Typ. 9½" br. wall reinf.
2-⅝ø x 12 bolts
Rad'g ht. +9'-0½"
3"# x ¼ Stl tube col. Cap & det'l (h)
9'2" brick wall beyond
32"
F S10
G S10
A S11
J S10
H S10
5"
5/16
12 4 x ¼ x 0'-7" 4-⅝ø bolts
(h)

½" Plywd stdg
2x12 RJ @ 24"oc
+ 11'-0"
2x6 pl.
12 B 22
2x6 ea. side of 2x10
+ 9'-8½"
2x10 flat
(f)
Det'l not noted to be same as (P/S13)
3"# x ¼ Stl. tube col.
4½"
Face of brick @ Admin. Bldg.
J S10 11'-1'-0"
℄ col.
5"
L 4 x 4 x ¼ x 0'-7½" 2-½ø bolts to web of 12 B. 2-⅝ø carr. bolts to 2x10
(f)

Scale: 1½"=1'-0" Unless Otherwise Noted

APPROVED: Lee B. Kline ARCHITECT
Lawrence Howell ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
22220 APPL. NO.
MAR 29 1960 DATE
PRINCIPAL STRUCTURAL ENGINEER

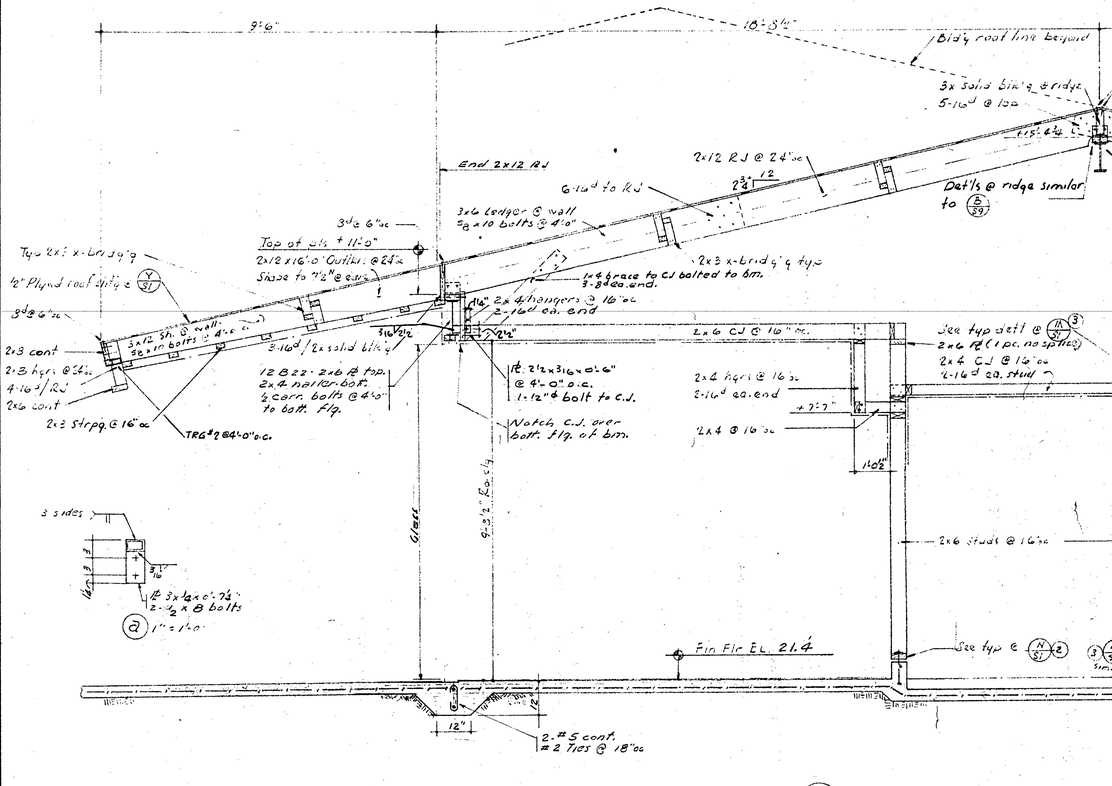
APPROVED: FOR THE DISTRICT
M. Eastwood
Jan. 4, 1960

SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CUPID WESTMINSTER, CALIFORNIA

HILLMAN & NOWELL STRUCTURAL ENGINEERS
Lawrence Howell

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

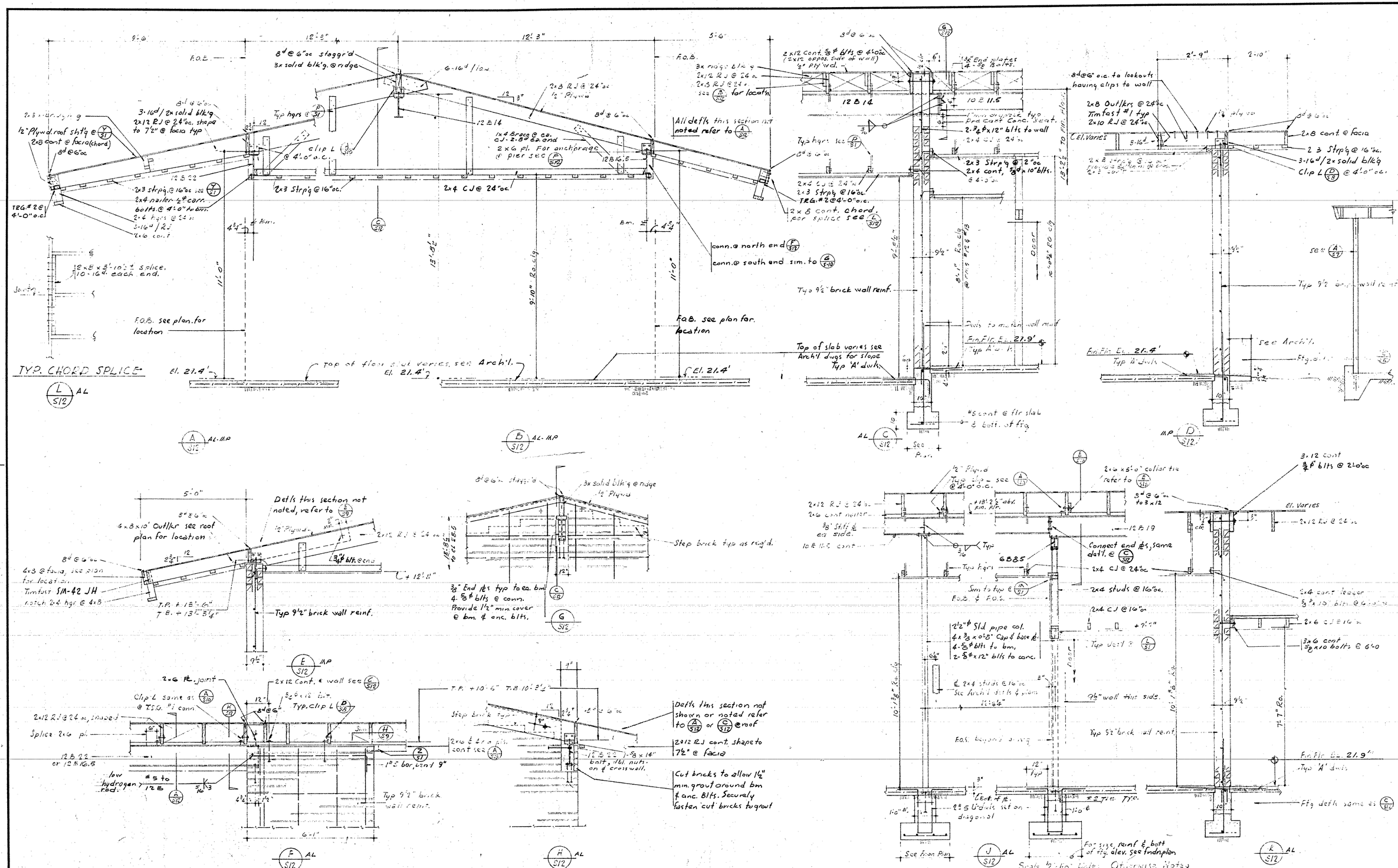
DATE OF DRAWING 3/28/60
DRAWN BY A Stiller
DRAWING NO. S-10
OF 52



APPROVED: Kel Kline ARCHITECT Lawrence Plavin Co ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECT 22220 APPL. NO. MAR 29 1962 DATE F. M. Magnuson PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT J. H. Eastwood John T. Fearon	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & HOWELL STRUCTURAL ENGINEERS Lawrence Plavin Co	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

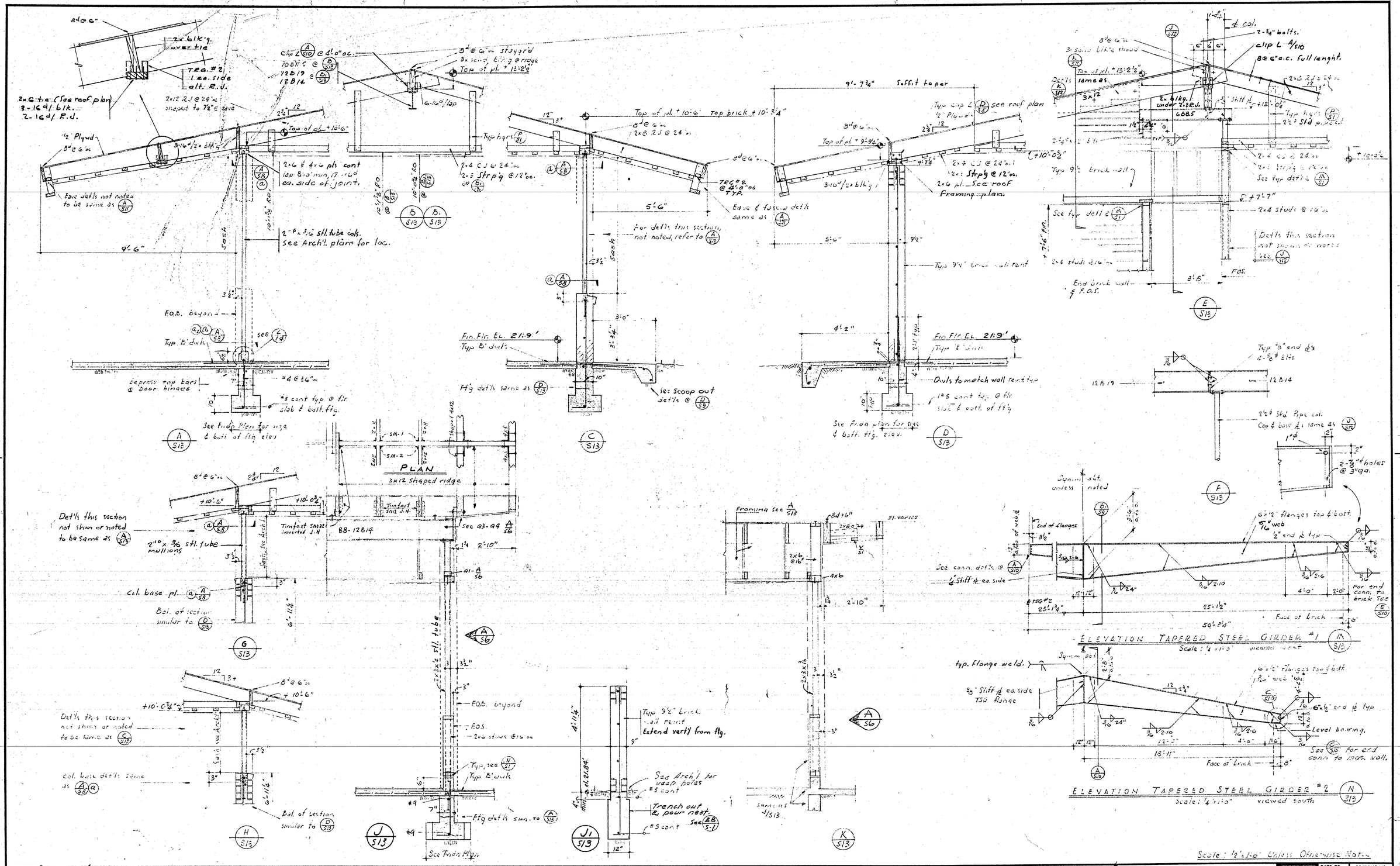
DATE OF DRAWING 8/28/62 · DRAWN BY F.S.Hills · DRAWING NO. S-11 · OF 52

Scale ½" = 1'-0" Unless Otherwise Noted



APPROVED: Lee B. Kline ARCHITECT; Lawrence Nowell ENGINEER	APPROVED: 22220 STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE; APPL. NO. MAR 28 1962 DATE; PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/28/62 DRAWN BY F. Stiles DRAWING NO. S-12 OF 52



APPROVED: Lee B. Kline ARCHITECT Lawrence Howell ENGINEER	APPROVED: 22220 APPL. NO. MAR 28 1967 DATE	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE P. Maazac PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT F. N. Eastwood J. H. F. [illegible]	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	HILLMAN & NOWELL STRUCTURAL ENGINEERS Lawrence Howell

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41, CLINTON 4-2241

DATE OF DRAWING 3/28/62
DRAWN BY F. Stiller
DRAWING NO. S-13 OF 52

FIXTURE	MARK	WASTE	VENT	TRAP	C.W.	H.W.	REMARKS
WATER CLOSET	W.C. 1	4"	2"	INT.	1"	-	12" FLR. MOUNTED 1" FL. VAL.
WATER CLOSET	W.C. 2	4"	2"	INT.	1"	-	10" FLR. MOUNTED 1" FL. VAL.
WATER CLOSET	W.C. 3	4"	2"	INT.	3/4"	-	15" FLR. MOUNTED FL. TANK
LAVATORY	LAV. 1	2"	1½"	1¼"	½"	½"	MOUNT. HT. 31"
LAVATORY	LAV. 2	2"	1½"	1¼"	½"	-	MOUNT. HT. 24"
URINAL	URI. 1	2"	1½"	2"	¾"	-	STALL TYPE 3/4" FL. VALVE
SERVICE SINK	SER.	2"	1½"	2"	¾"	¾"	28" MOUNT. HT.
SINK	SINK 1	2"	1½"	1½"	½"	-	CABINET
SINK	SINK 2	2"	1½"	1½"	½"	½"	CABINET
WASH SINK	WA. SI. 1	2"	1½"	1½"	½"	-	MOUNT. HT. 28"
FLOOR DRAIN	F.D. 1	2"	2"	2"	-	-	
FLOOR SINK	F.S. 1	2"	2"	2"	-	-	
DRINKING FOUNTAIN	D.F. 1	2"	1½"	1½"	½"	-	SNG. BUB. MOUNT. HT. 40"
DRINKING FOUNTAIN	D.F. 2	2"	1½"	1½"	½"	-	3 BUB. MOUNT. HT. 40"
DRINKING FOUNTAIN	D.F. 3	2"	1½"	1½"	½"	-	SNG. BUB. "HC" MOUNT. HT. 24"

PLUMBING FIXTURE SCHEDULE

ABBREV.	SYMBOL	DESCRIPTION
W. & S.	———	WASTE & SOIL LINE
V.	- - - - - -	VENT LINE
C.W.	———	COLD WATER LINE
H.W.	———	HOT WATER LINE
H.W.R.	———	HOT WATER RETURN LINE
H.W. 180°	———	HOT WATER 180° LINE
H.W.R.180°	———	HOT WATER 180° RETURN LINE
G.	——G——	GAS LINE
C.I.		CAST IRON
C.O.		CLEAN OUT (F.) FLOOR (Y.B.) YARD BOX
V.T.R.		VENT THRU ROOF
V.C.P.		VITRIFIED CLAY PIPE
W/L.K.		WITH LOOSE KEY
H.B.		HOSE BIBB
S.O.V.		SHUT OFF VALVE
HDR.		HEADER
A.P.		ACCESS PANEL
P.Y.		PLUGGED WYE
P.T.		PLUGGED TEE
RED.		REDUCER

PLUMBING LEGEND

HTR NO	MFGR.	MODEL NO	GAL STOR.	G.P.H. @ 60° T. D	BTU/HR INPUT	FLUE VENT	PUMP	LOCATION
W.H.-1	GENERAL	DELUXE NO 875	75	100	71,400	4"	3/4 G. @ 100 @ 1/2 H.P.	BLDG. "MP"
W.H.-2	GENERAL NO A-100	HI-RATE	100	175	196,350	6"	3/4 G. @ 100 @ 1/2 H.P.	BLDG. "MP"
W.H.-3	GENERAL	DUROGLAS SUPER	30	58.2	58,000	4"	3/4 G. @ 100 @ 1/2 H.P.	BLDG. "AL"
W.H.-4	COLUMBIA	V5G12	12	6	1000 WATT	-	-	BLDG. "K"
W.H.-5	GENERAL	DUROGLAS SUPER	30	58.2	58,000	4"	-	BLDG. "C-4"
W.H.-6	DO.	DO.	DO.	DO.	DO.	DO.	-	BLDG. "C-2"

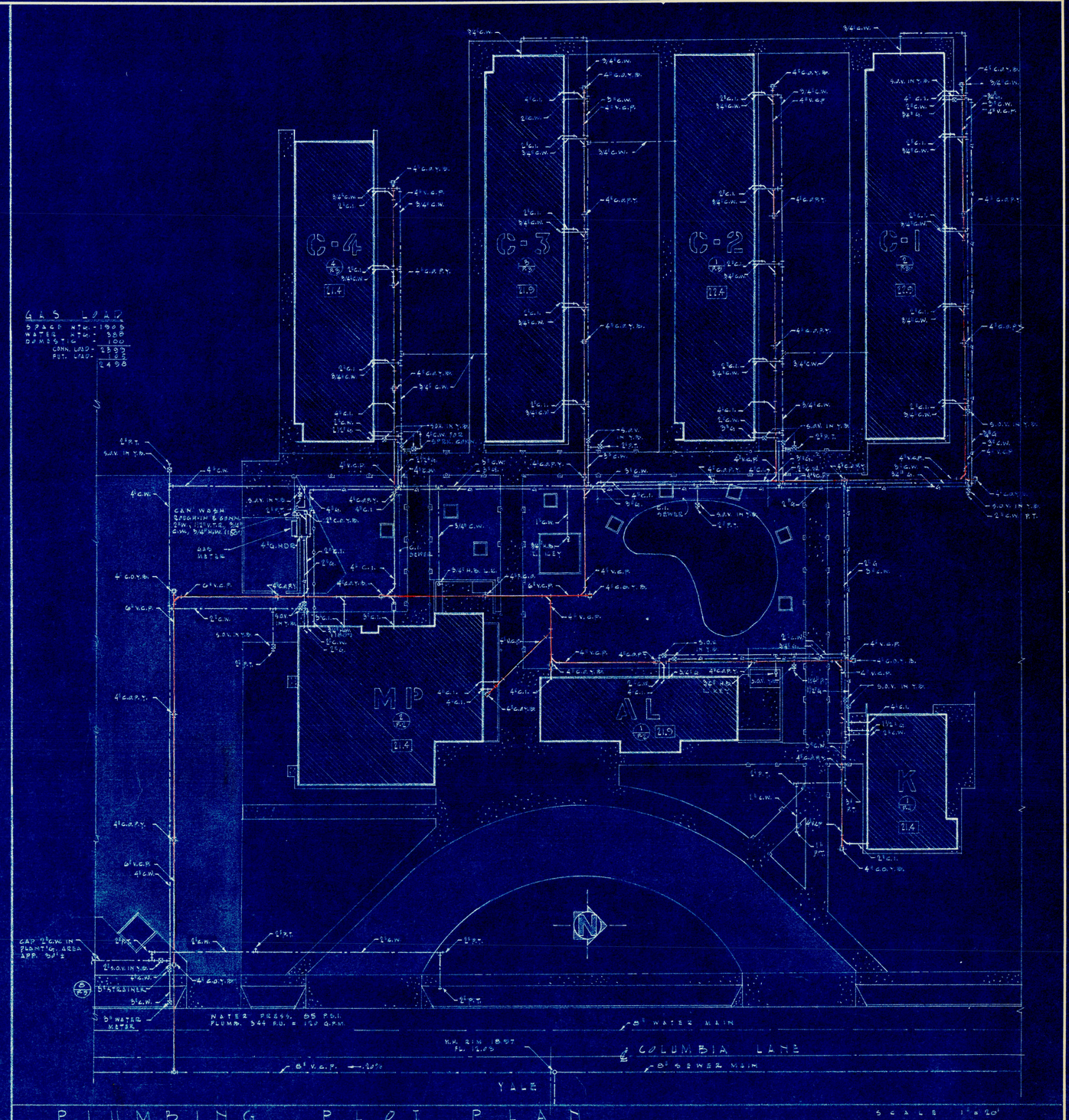
HOT WATER HEATER SCHEDULE

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY SIZES, DEPTH & LOCATION OF ALL POINTS OF CONNECTION TO EXISTING UTILITIES BEFORE TRENCHING.
2. ALL FINAL CONNECTIONS TO HEATING EQUIPMENT SHALL BE BY HEATING CONTRACTOR.
3. ALL GAS COCKS IN YARD BOX SHALL BE CONSPICUOUSLY MARKED "GAS"
4. ALL PLUMBING LINES IN BLDG'S. SHALL BE RUN CONCEALED ABOVE BLDG. SLAB PART. ETC. UNLESS NOTED OTHERWISE.

GAS LOAD

STAGE NTH.	1905
WATER HTR.	380
DOMESTIC	100
COMM. LOAD	2385
FUT. LOAD	105
	2490



PLUMBING PLOT PLAN

SCALE 1"=20'

APPROVED: [signature] ARCHITECT
[signature] ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
22220 APPL. NO.
MAR 28 1962 DATE
[signature] PRINCIPAL STRUCTURAL ENGINEER

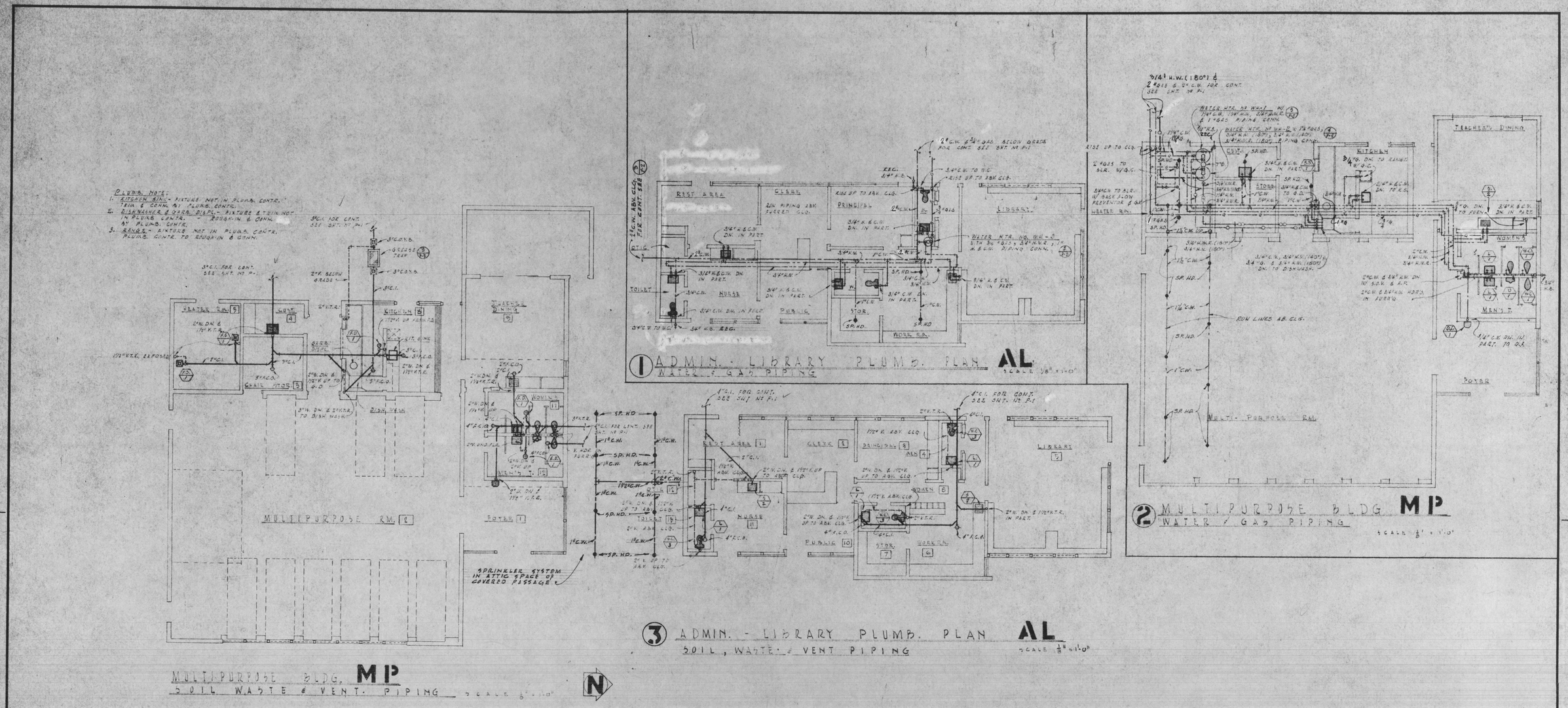
APPROVED: FOR THE DISTRICT
[signature]

SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

P & K COMPANY
MECHANICAL ENGINEERING
542 S. BROADWAY MA. 8-2329
LOS ANGELES 13, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/23/62
DRAWN BY [illegible]
DRAWING NO. P-1 OF 52



1 ADMIN. - LIBRARY PLUMB. PLAN AL
WATER & GAS PIPING
SCALE 1/8" = 1'-0"

2 MULTIPURPOSE BLDG MP
WATER & GAS PIPING
SCALE 1/8" = 1'-0"

3 ADMIN. - LIBRARY PLUMB. PLAN AL
SOIL, WASTE & VENT PIPING
SCALE 1/8" = 1'-0"

MULTIPURPOSE BLDG. MP
SOIL WASTE & VENT. PIPING SCALE 1/8" = 1'-0"

APPROVED: Lee B. Kline ARCHITECT; G. Alan Komoto ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE; APPL. NO. 22220; DATE FEB 28 1962; F. Morgan PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT; T. M. Eastwood; John T. Land, Jr.	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT; COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	P. & K. COMPANY MECHANICAL ENGINEERING 542 S. BROADWAY LOS ANGELES 13, CALIFORNIA MA. 8-2329	FRANK PERL ROBERT MALSBY ASSOCIATES	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

BK | DATE OF DRAWING 2/28/62 | DRAWN BY ZAVIERDH | DRAWING NO. P-2 OF 52

SPRINKLER PLAN

4 C-4 CLASSROOM UNIT

3 C-3 CLASSROOM UNIT

2 C-1 CLASSROOM UNIT

1 C-2 CLASSROOM UNIT

N

PLUMBING FLOOR PLANS

SCALE 1/8" = 1'-0"

APPROVED: [signature] ARCHITECT
[signature] ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS DIVISION OF ARCHITECTURE
APPL. NO. 22224
DATE MAR 28 1962
[signature] PRINCIPAL STRUCTURAL ENGINEER

APPROVED: FOR THE DISTRICT
[signature]

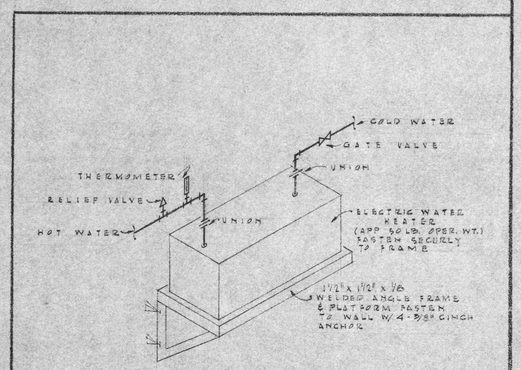
SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

P & K COMPANY
MECHANICAL ENGINEERING
542 S. BROADWAY MA. 6-2329
LOS ANGELES 13, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 5/22/62
DRAWN BY CAMERON

DRAWING NO. P.3 OF 52



3 ELECTRIC WATER HEATR.

Pipe Size	TEES & DEAD ENDS			90° ELBOW			45° ELL		
	PIPE COVERAGE			PIPE COVERAGE			PIPE COVERAGE		
	2' to 5'	5' to 5'	5' to 7'	2' to 5'	5' to 5'	5' to 7'	2' to 5'	5' to 5'	5' to 7'
3"	3.5	2	1.5	4.75	2.5	2	2.5	1.5	1
4"	5.5	3	2	7	3	3	4	2.25	1.5
6"	10.5	6	4	14.5	8.25	6	8	4.75	3

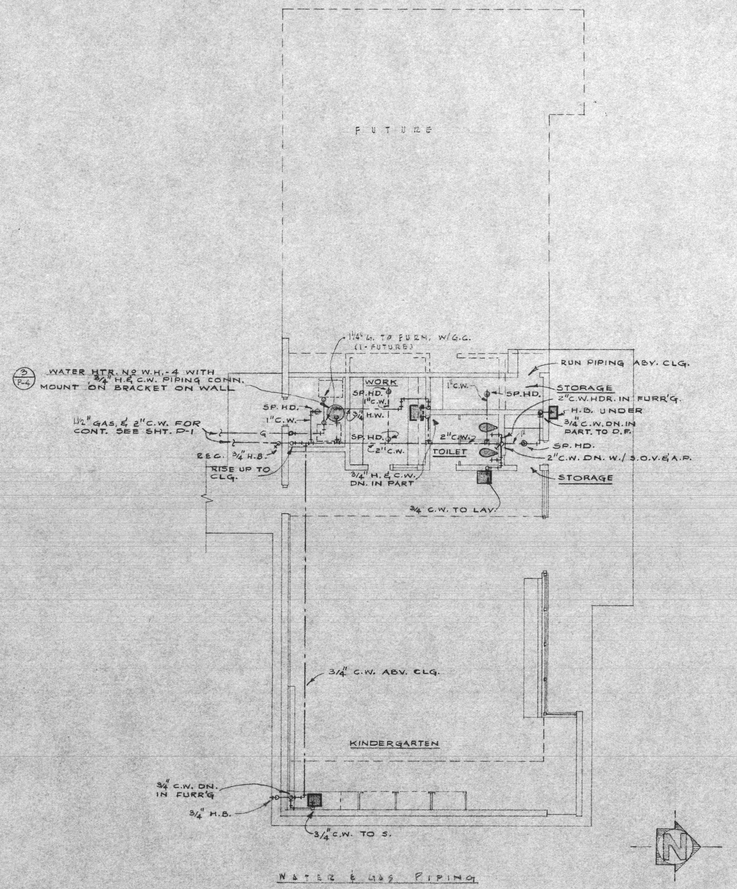
SQUARES NOT AREAS GIVEN ARE FOR ALL SOILS EXCEPT LOOSE SAND AND SOFT CLAY AGAINST UNDISTURBED EARTH IN DIRECTION OF THRUST

CLASS 150 ASBESTOS CEMENT PIPE WITH 100 P.S.I. WATER PRESS

EXCEPT AS NOTED IN OTHER PARTS OF PLANS & SPECIFICATION INSTALLATION OF PIPE AND FITTINGS SHALL BE AS OUTLINED IN MANUALS AS FURNISHED BY THE MANUFACTURER

TRENCH: MINIMUM COVER OF 30" ABOVE THE TOP OF PIPE

2 THRUST BLOCK



1 KINDERGARTEN PLUMBING PLAN

SCALE ⅛" = 1'-0"

APPROVED: _____ ARCHITECT _____ ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
22220 APPL. NO.
MAR 28 1962 DATE
PRINCIPAL STRUCTURAL ENGINEER

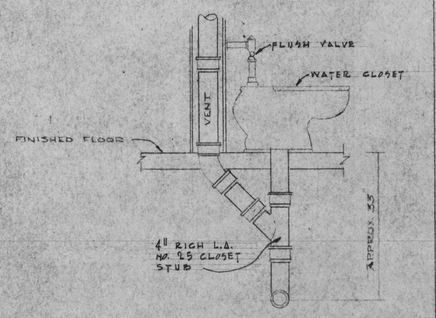
APPROVED: _____ FOR THE DISTRICT

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

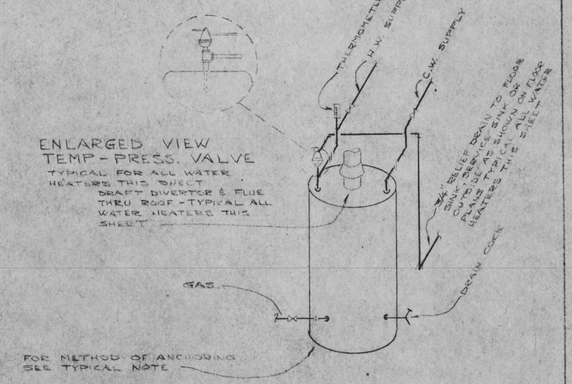
P & K COMPANY
MECHANICAL ENGINEERING
542 S. BROADWAY MA. 8-2329
LOS ANGELES 13, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

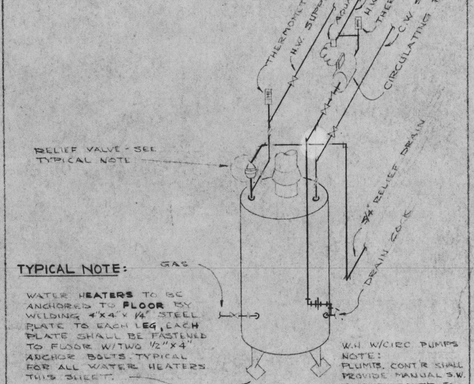
DATE OF DRAWING 3/22/62
DRAWN BY H.S. D.F.C.
DRAWING NO. P-4
OF 82



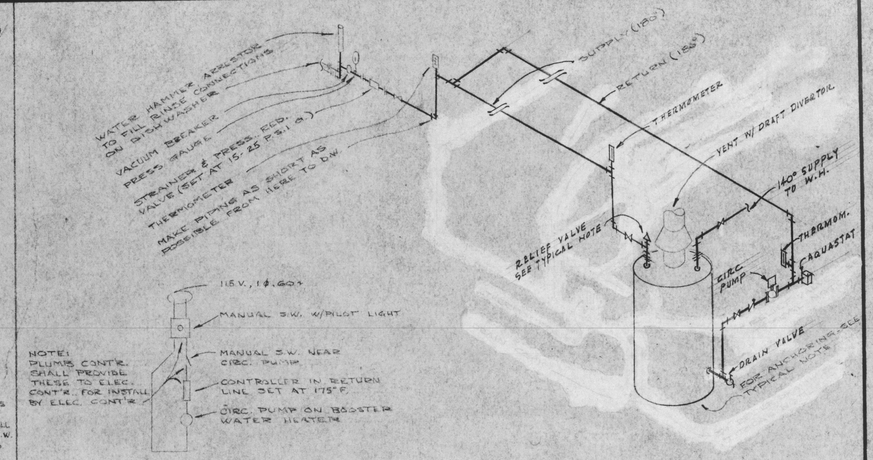
1 DETAIL - TYP W.C. CONN.
NO SCALE



2 DETAIL - W.H. CONNECTIONS
NO SCALE



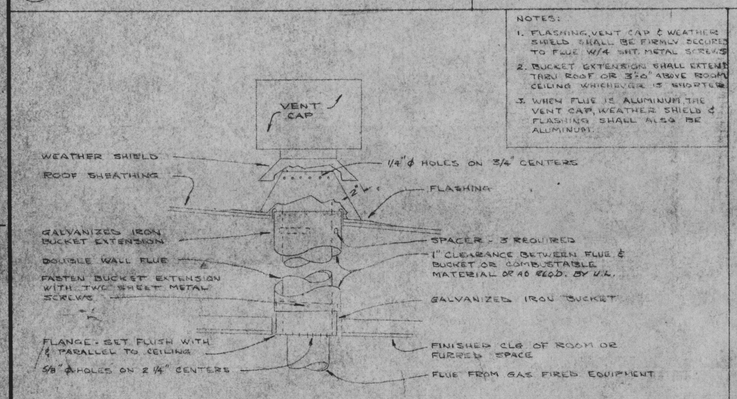
3 DETAIL W.H. CIRC CONN
NO SCALE



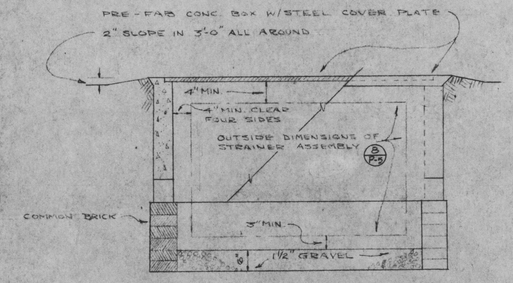
WIRING DIAGRAM FOR BOOSTER W.H.

4 DETAIL - H.W. BOOSTER HEATER CONNECTIONS
NO SCALE

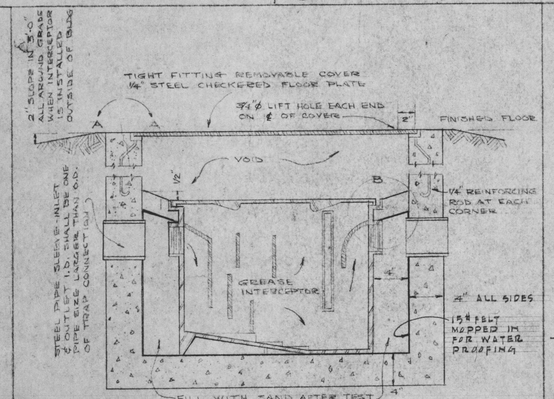
FOR ABOVE WATER HEATERS IN THESE THREE DETAILS SEE TYPICAL NOTES

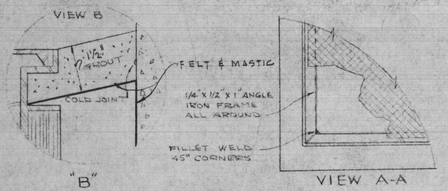


5 DETAIL - FLUE FOR GAS FIRED EQUIP.
NO SCALE



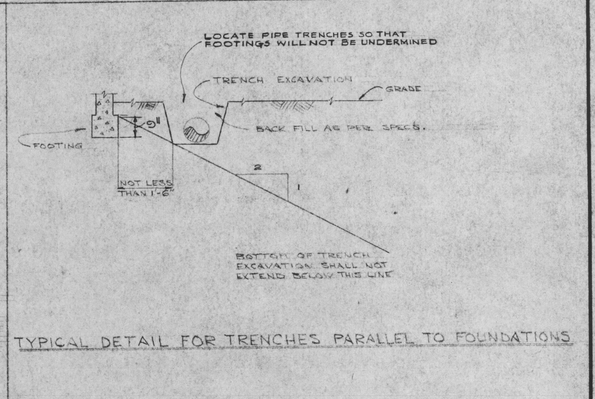
6 DETAIL - UNDERGROUND - BOX
NO SCALE



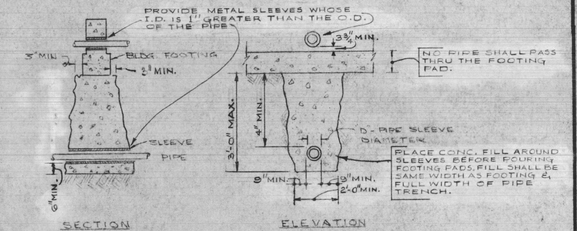


9 GREASE INTERCEPTOR IN CONC. BOX
NO SCALE

NOTE:
GREASE INTERCEPTORS SHALL HAVE FLOW RATE OF 35 G.P.M. & A GREASE RETENTION CAPACITY OF 70 LBS.



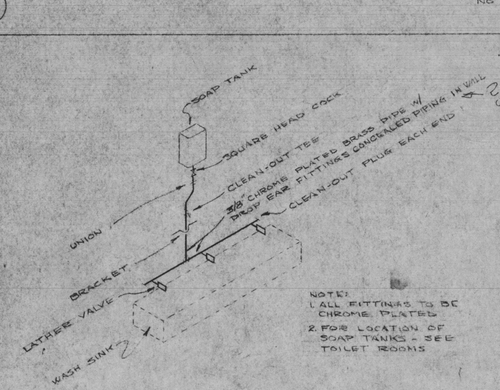
TYPICAL DETAIL FOR TRENCHES PARALLEL TO FOUNDATIONS



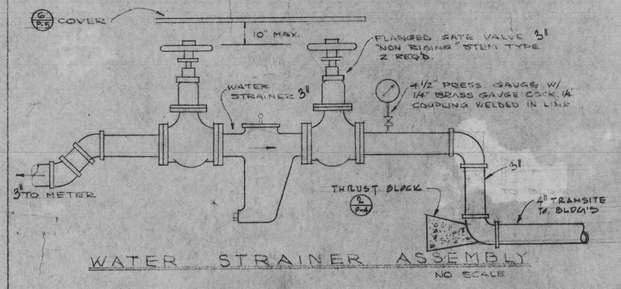
TYPICAL DET. FOR TRENCHES NOT PARALLEL TO FOUNDATIONS

NOTE:
FOOTINGS SHALL BE STEPPED SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0" IN ANY CASE

DETAIL TRENCH & EXCAVATING
NO SCALE



GRAVITY SOAP SYSTEM
NO SCALE



WATER STRAINER ASSEMBLY
NO SCALE

SEE TYPICAL NOTES

No Reproduction of Drawings

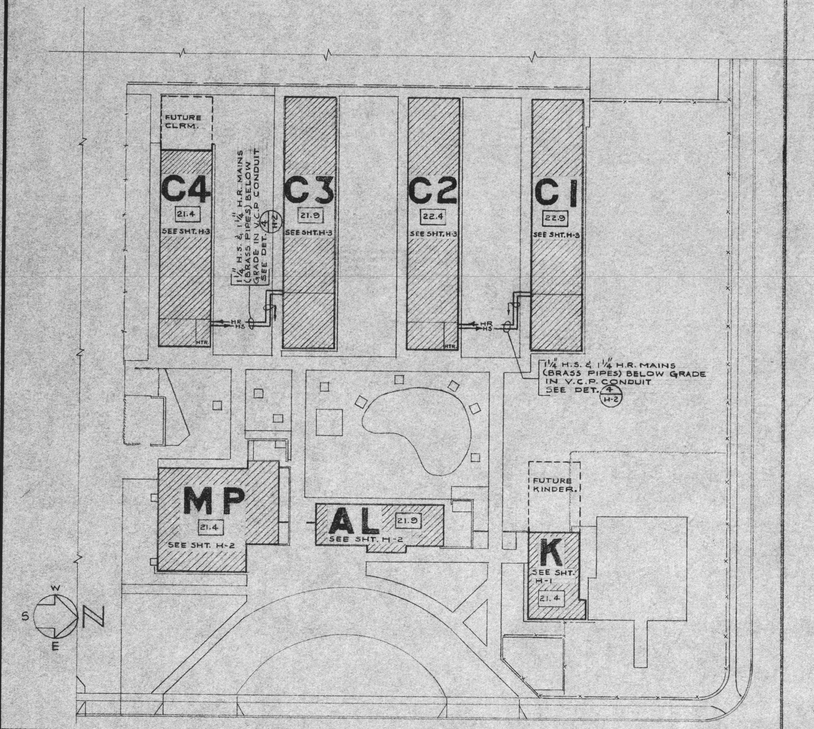
APPROVED: Lee B. Kline ARCHITECT; W. Alan Tonte ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE; APPL. NO. 22220; MAR 28 1962 DATE; PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT J.M. Englund; John E. Ford Jr.	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA	P & K COMPANY MECHANICAL ENGINEERING 660 S. BROADWAY LOS ANGELES 13, CALIFORNIA MA 8-2128	FRANK PERL

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

BLK

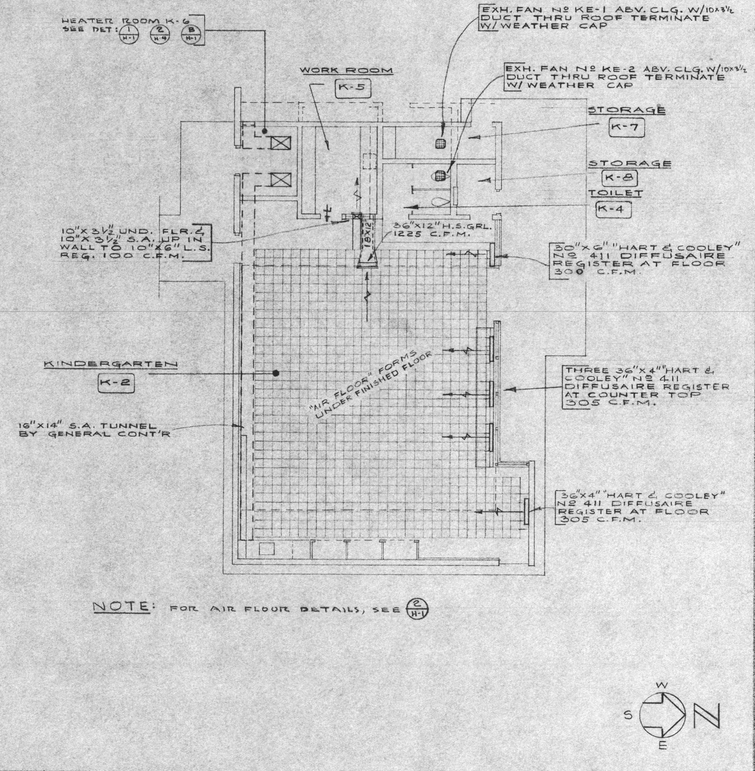
DATE OF DRAWING 4/18/62 DRAWN BY

DRAWING NO. P-5 OF 62



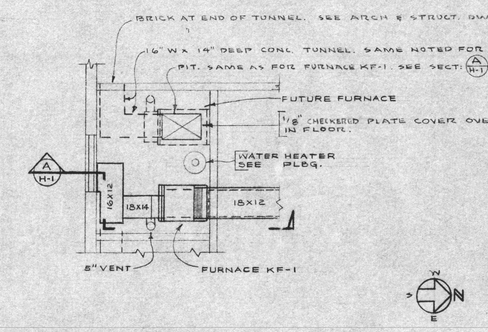
HEATING PLOT PLAN

SCALE: 1" = 40'-0"



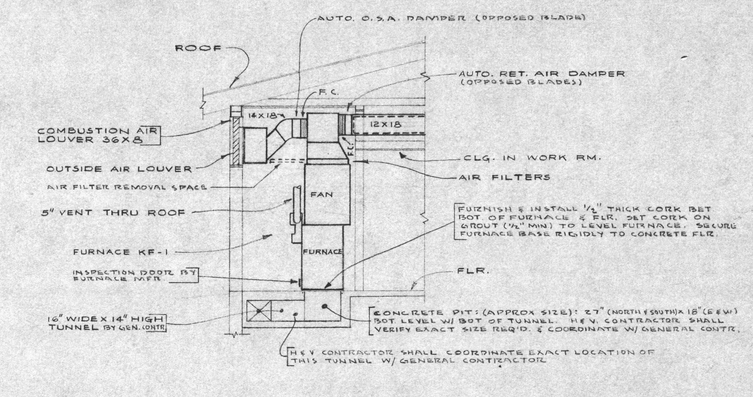
NOTE: FOR AIR FLOOR DETAILS, SEE G/H-1

HEATING PLAN KINDERGARTEN (SCALE: 1/2" = 1'-0")



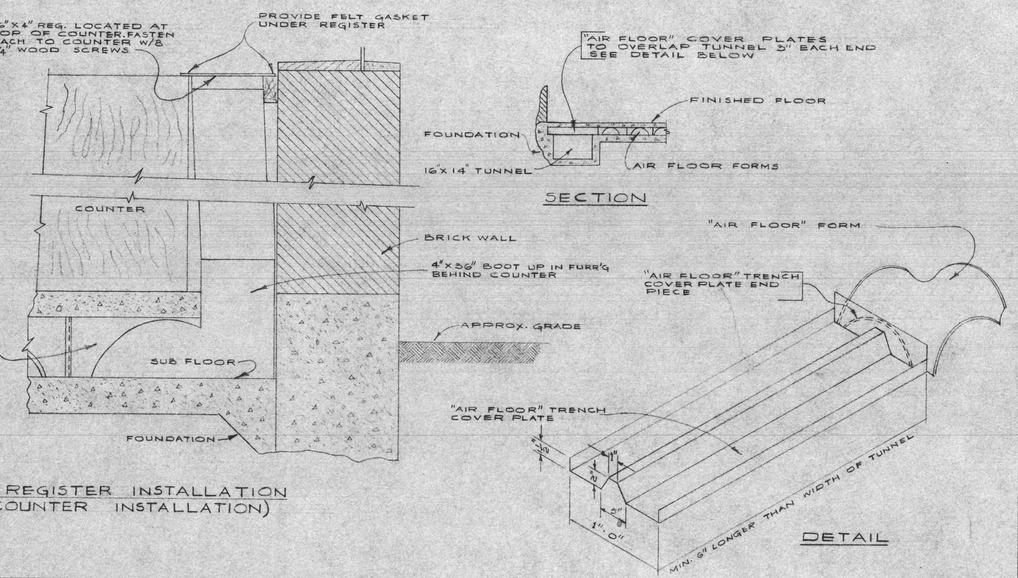
(1) PLAN OF HEATER RM. K-6

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



(A) SECTION (LOOKING WEST)

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



DETAIL REGISTER INSTALLATION (FOR COUNTER INSTALLATION)

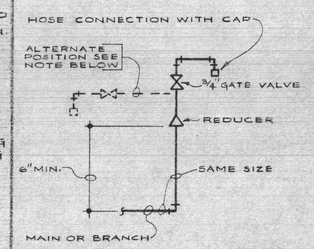
(2) AIR FLOOR DETAILS

(NOT TO SCALE)

ABBREV.	DESCRIPTION
ABV.	ABOVE
A.D.	ACCESS DOOR
BEL.	BELOW
B.G.	BOTTOM GRILLE
B.R.	BOTTOM REGISTER
BET.	BETWEEN
C.D.	CEILING DIFFUSER
C.F.M.	CUBIC FEET PER MINUTE
C.G.	CEILING GRILLE
CLG.	CEILING
CONT.	CONTINUATION
C.R.	CEILING REGISTER
F.D.	FIRE DAMPER
FLR.	FLOOR
F.R.	FLOOR REGISTER
GA.	GAUGE
GALV.	GALVANIZED
I.D.	INSIDE DIAMETER
O.D.	OUTSIDE DIAMETER
M.A.V.	MANUAL AIR VENT. SEE DETAIL 3/H-1
M.D.	MOTORIZED DAMPER
N.T.S.	NOT TO SCALE
O.S.A.	OUTSIDE AIR
R.A.	RETURN AIR
S.A.	SUPPLY AIR
SHT.MTL.	SHEET METAL
T. & B.	TUTTLE & BAILEY
T.G.	TOP GRILLE
T.R.	TOP REGISTER
TYP.	TYPICAL
V.C.P.	VITRIFIED CLAY PIPE
V.T.R.	VENT THRU ROOF
W/	WITH
B & G	BELL & GOSSETT

SYMBOL	ABBREVIATION	DESCRIPTION
	SQ.ELL.W/VANES	SQUARE ELBOW WITH TURNING VANES
	F. C.	FLEXIBLE CONNECTION
	V. D.	OPPOSED BLADE VOLUME DAMPER WITH QUADRANT REGULATOR
	ACT. LNG.	1" THICK ACOUSTIC LINING. SIZE NOTED ON DRAWING IS THE NET CLEAR INSIDE DIMENSION
	D.L.	DOOR LOUVER. NOT INCLUDED UNDER HEATING & VENTILATING SECTION OF THE SPECIFICATION.
T		ROOM THERMOSTAT
		THERMOMETER
		PRESSURE GAUGE WITH GAUGE COCK
HS	H. S.	HOT WATER HEATING SUPPLY PIPING
HR	H. R.	HOT WATER HEATING RETURN PIPING
D	D.	DRAIN PIPING
	A. V.	ANGLE VALVE
	B. C.	BALANCING COCK
	C. V.	CHECK VALVE
	G. V.	GATE VALVE
	STR.	STRAINER
	CONC. RED.	REDUCER, CONCENTRIC
	ECC. RED.	REDUCER, ECCENTRIC
	U.	UNION
		DIRECTION OF FLOW
		PITCH DOWN IN DIRECTION OF ARROW

HEATING & VENTILATING LEGEND



NOTES:

1. USE ALTERNATE POSITION FOR EACH M.A.V. IN EACH CLASSROOM UNIT BLDG. & LOCATE ADJACENT TO CLG. ACCESS. SEE ARCH. FOR CLG. ACCESS LOCATION.
2. WHEN M.A.V. IS ABOVE ROOF, FLASH & COUNTER-FLASH PIPE THRU ROOF. (LOCATE M.A.V. ABOVE ROOF WHEN INACCESSIBLE).

(3) MANUAL AIR VENT DETAIL (NOT TO SCALE)

APPROVED: _____ ARCHITECT
G. Alan Komoto ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
22220 APPL. NO.
MAR 28 1962 DATE
E. Mossgrove PRINCIPAL STRUCTURAL ENGINEER

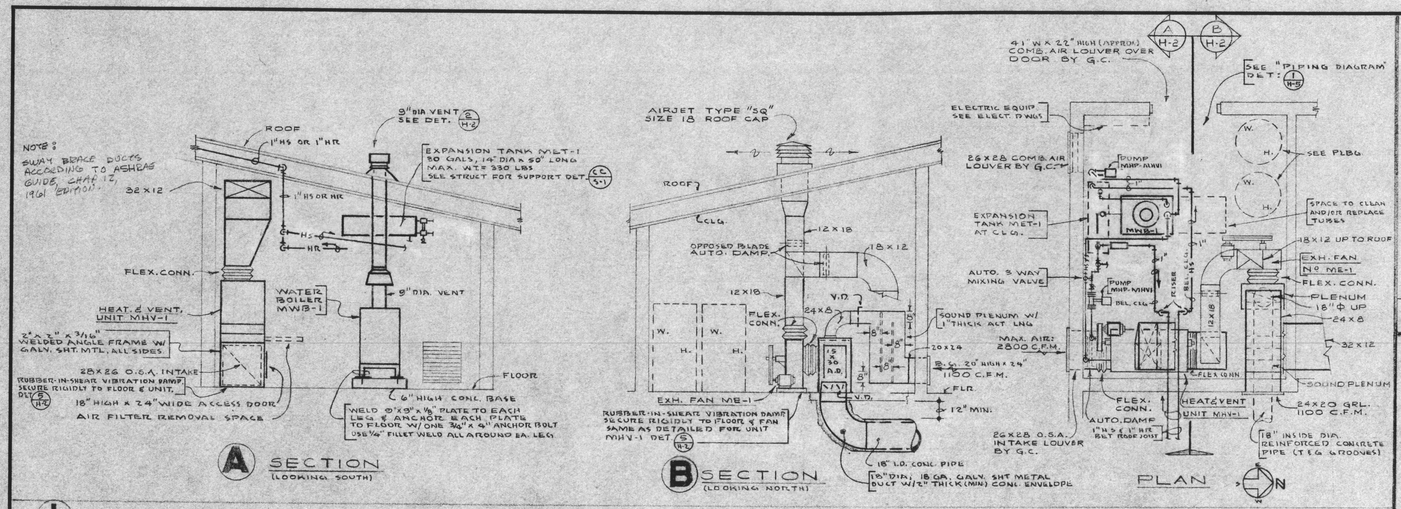
APPROVED: FOR THE DISTRICT
E.M. Eastwood
John F. Shirley Jr.

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

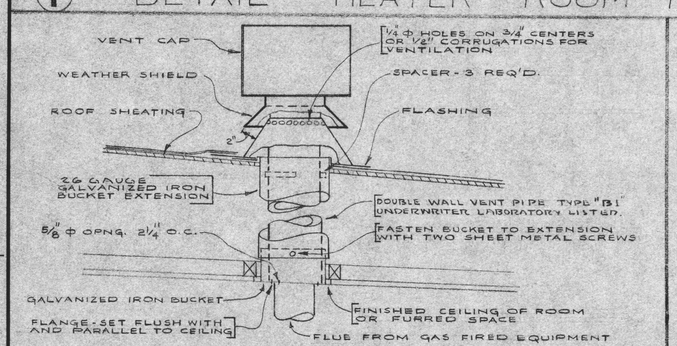
P & K COMPANY
MECHANICAL ENGINEERING
542 S. BROADWAY MA. 8-2329
LOS ANGELES 13, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/23/62
DRAWN BY H.S.
DRAWING NO. H-1
OF 52



1 DETAIL ◦ HEATER ROOM Nº 3 "MP" BLDG.

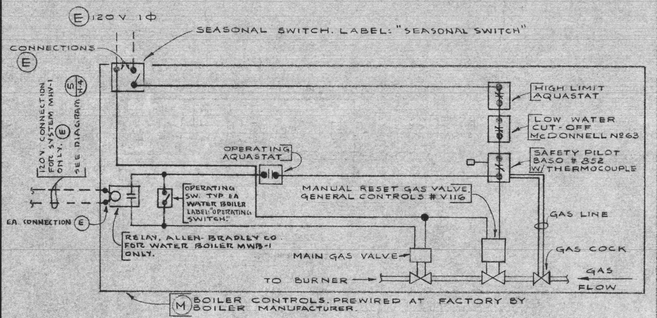


NOTES:

1. VENT CAP AND WEATHER SHIELD SHALL BE FIRMLY SECURED TO FLUE WITH FOUR SHEET METAL SCREWS.
2. WHEN FLUE IS ALUMINUM, THE CAP WEATHER SHIELD AND FLASHING SHALL ALSO BE ALUMINUM.

2 VENT ASSEMBLY

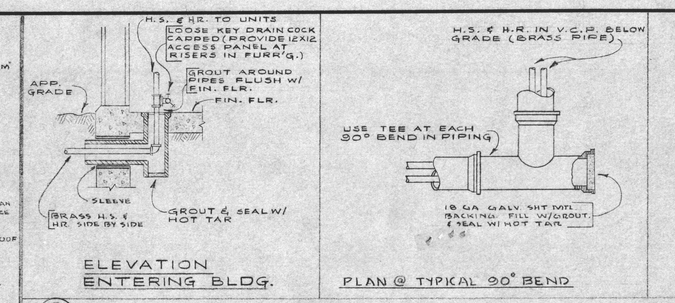
NOT TO SCALE



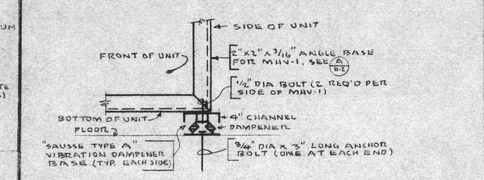
NOTES:

1. WHENEVER THE SEASONAL BOILER SWITCH, HIGH LIMIT AQUASTAT, LOW WATER CUT-OFF OR SAFETY PILOT SWITCHES ARE "OPENED", MANUAL RESET GAS VALVE MUST BE RESET IN ORDER TO OPERATE BOILER.
2. THIS CONTROL DIAGRAM IS TYPICAL FOR WATER BOILERS: MWB-1, CRWB-1 & CMWB-1

3 TYPICAL WATER BOILER CONTROL DIAGRAM



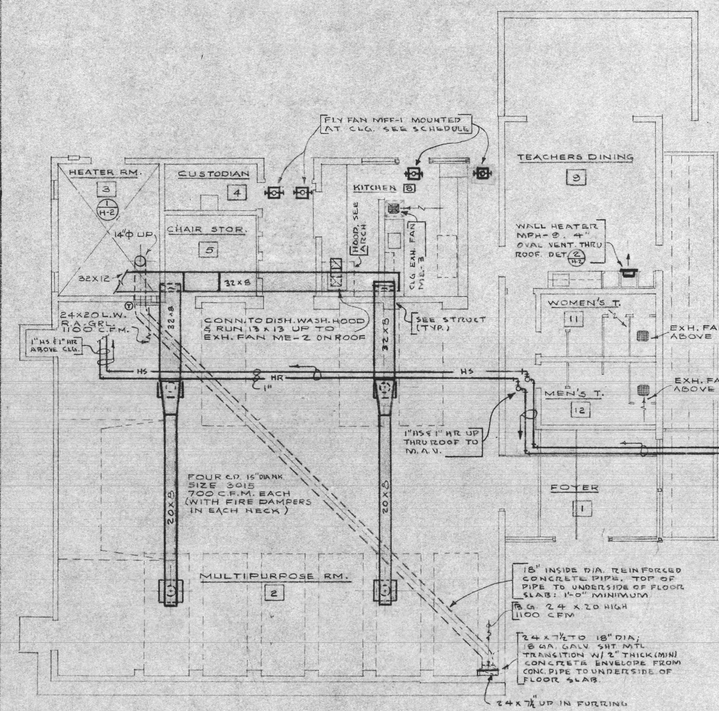
4 HOT WATER HEATING PIPING BELOW GRADE (NOT TO SCALE)



NOTES:

1. THIS DETAIL IS TYPICAL FOR EACH SIDE OF UNIT MHV-1
2. GROUT BET. FLOOR SLAB & BOTTOM OF VIBRATION DAMPENER BASE. INSTALL UNIT MHV-1 LEVEL.
3. FAN ME-1 SHALL BE SAME AS DETAILED ABOVE.

5 H&V UNIT MHV-1 DAMPENER DETAIL NOT TO SCALE



MULTIPURPOSE BLDG. **MP**

ADMINISTRATION - LIBRARY BLDG. **AL**

GENERAL NOTES:

1. FOR EACH B.G. IN BLDG "AL", FURNISH & INSTALL VOLUME DAMPER IN RISER OPERABLE FROM FACE OF B.G.
2. BLDG "AL": RUN DUCTS BET ROOF JOIST WHERE REQ'D. COORDINATE W/ GENERAL CONTRACTOR ON JOB SITE.
3. EACH C.D. (ALL BLDG.) SHALL BE TUTTLE & BAILEY TYPE "DE" OF SIZES NOTED ON DWGS.

HEATING & VENTILATING PLANS

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

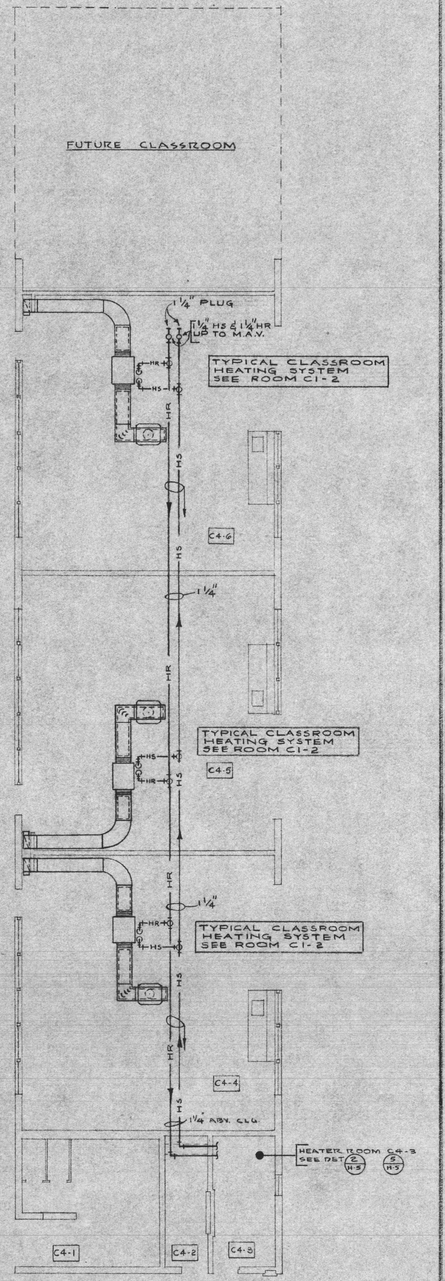
APPROVED: Lee B. Kline — ARCHITECT
APPROVED: U. Alan Komoto — ENGINEER
APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE — 22220 APPL. NO. — MAR 28 1962 DATE — PRINCIPAL STRUCTURAL ENGINEER
APPROVED: FOR THE DISTRICT — John F. Ford Jr.

SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA

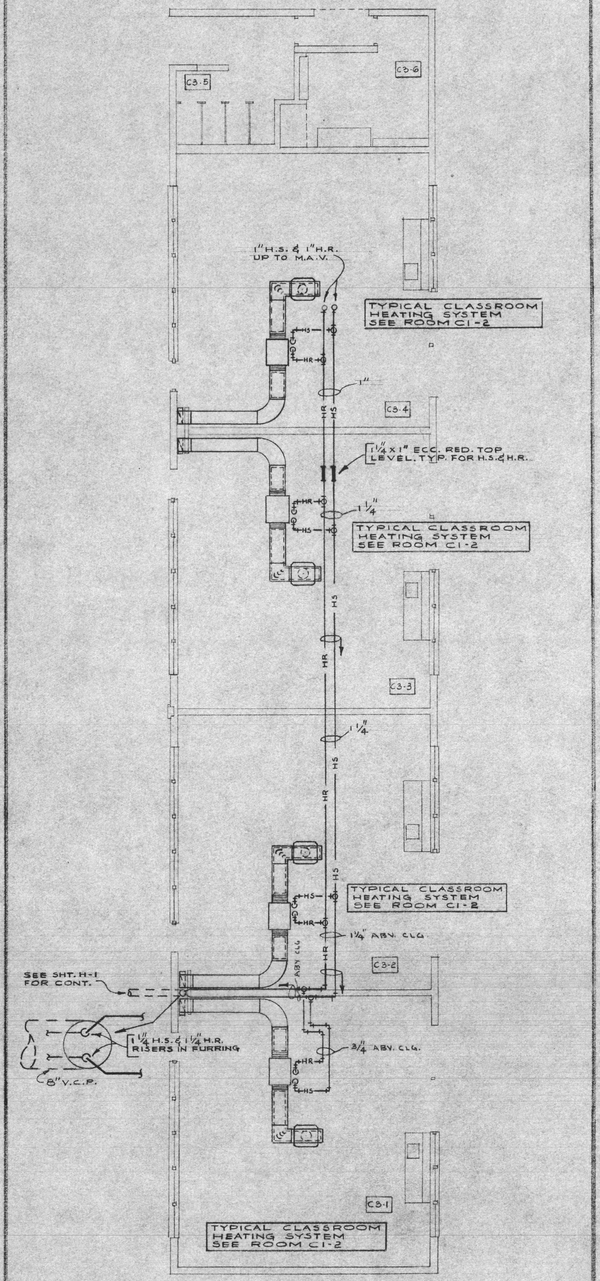
P & K COMPANY
MECHANICAL ENGINEERING
542 S. BROADWAY MA. 8-7329
LOS ANGELES 13, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

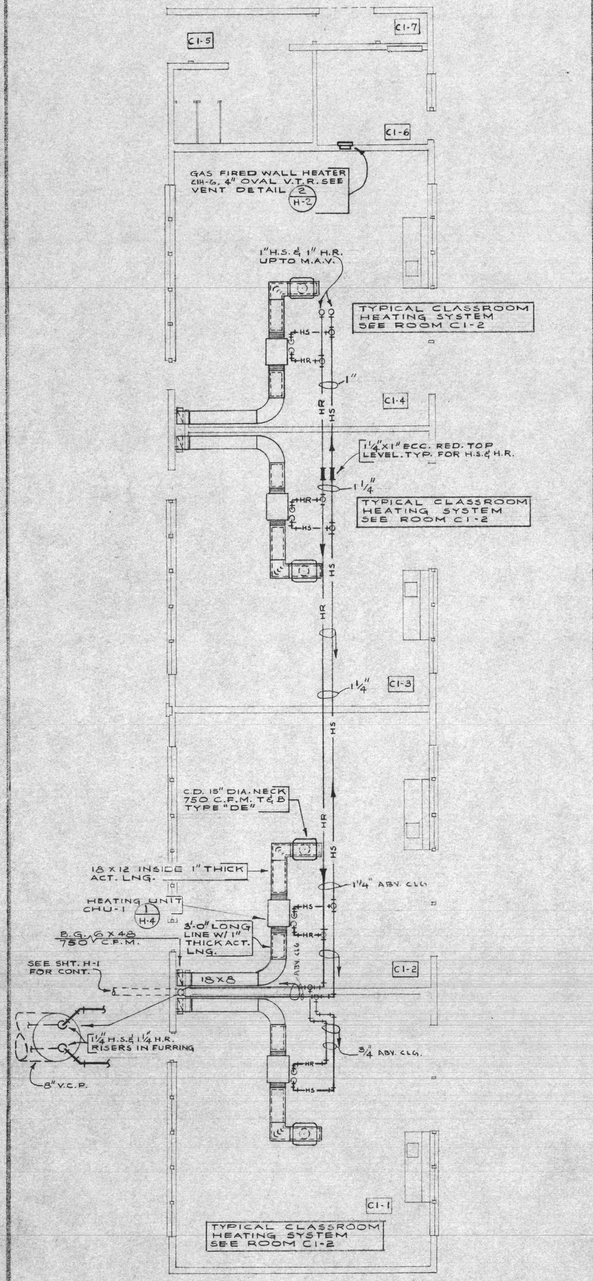
DATE OF DRAWING 8/24/62
DRAWN BY H.S.
DRAWING NO. H-2
OF 52



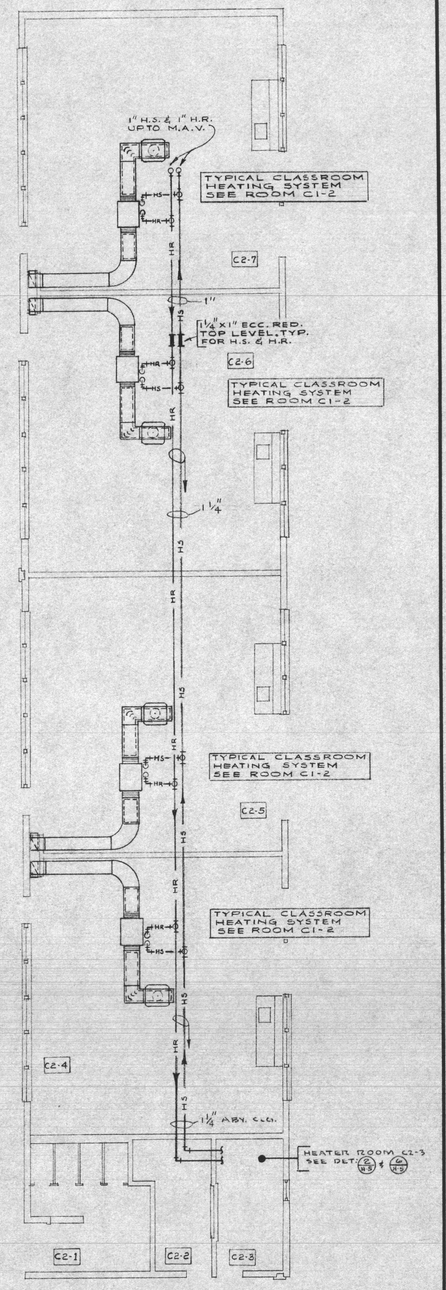
HEATING PLAN-UNIT **C-4** SCALE: 1/8"=1'-0"



HEATING PLAN-UNIT **C-3** SCALE: 1/8"=1'-0"



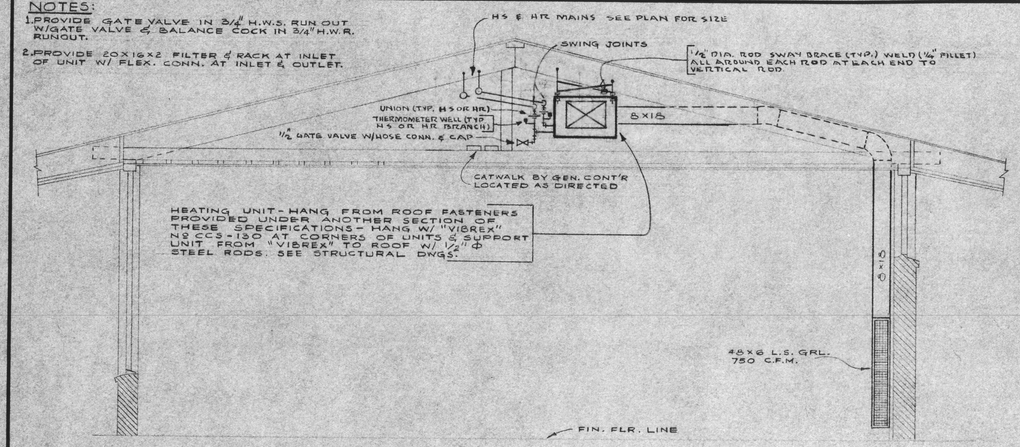
HEATING PLAN-UNIT **C-1** SCALE: 1/8"=1'-0"



HEATING PLAN-UNIT **C-2** SCALE: 1/8"=1'-0"

APPROVED: ARCHITECT / ENGINEER: A. Alan Komoto	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE; APPL. NO. 22220; DATE: MAR 28 1962; PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT; COLUMBIA AT CORNELL, WESTMINSTER, CALIFORNIA	P & K COMPANY MECHANICAL ENGINEERING 542 S. BROADWAY MA. 8-2329 LOS ANGELES 13, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 5/28/62; DRAWN BY H.S.; DRAWING NO. H-3 of 52

NOTES:
1. PROVIDE GATE VALVE IN 3/4" H.W.S. RUN OUT W/GATE VALVE & BALANCE COCK IN 3/4" H.W.R. RUNOUT.
2. PROVIDE 20X16X2 FILTER & RACK AT INLET OF UNIT W/ FLEX. CONN. AT INLET & OUTLET.



1 TYPICAL SECTION CLASSROOM HEATING UNIT SCALE: 3/8" = 1'-0"

HEATING & VENTILATING UNIT SCHEDULE

MARK	FAN: STD. AIR (CFM)	FAN: APPROX. S.P. (INCH)	FAN: O.V. (FPM)	FAN: NO. OF WHEELS	FAN: WHEEL DIA. (INCH)	FAN: TYPE OF DRIVE	FAN MOTOR: H.P.	FAN MOTOR: VOLTS	FAN MOTOR: PH.	FAN MOTOR: R.P.M.	HOT WATER HEATING COIL: F.A. FT²	TUBE FACE	TYPE AND ROWS	FINS	NOMINAL TUBE LENGTH	AIR: ON	AIR: OFF	AIR: FRICT. (INCH)	WATER: GPM	WATER: ON	WATER: OFF	WATER: CIRCUIT	WATER: TUBES PER PASS	WATER: NO. OF PASSES	WATER: FRICT. (FT.)	AIR FILTERS: TYPE OF BOX	AIR FILTERS: NO.	AIR FILTERS: SIZE, EACH (INCH)	MANUFACTURER & CATALOG NO.	APPROXIMATE OPERATING WEIGHT (LBS.)
MHV-1	2800	5/8	1220	1	15	BELT	3/4	240	1	1750	7.8	18	W-2	V4	45"	65°F	114°F	0.12	7.6	190°F	150°F	1/3	16	6	2.0	FLAT	3	16X25X2	AMERICAN BLOWER 1V15	940
ALHV-1	1330	1	1890	1	8 1/2	BELT	3/4	240	1	1750	1.8	6	W-2	V4	33"	65°F	112°F	0.31	3.5	190°F	150°F	1/3	2	6	2.6	FLAT	2	16X20X2	AMERICAN BLOWER 1V8B	720

CLASSROOM HEATING UNIT SCHEDULE

MARK	FAN: STD. AIR (CFM)	FAN: APPROX. S.P. (INCH.)	FAN: NO. OF WHEELS	FAN: WHEEL DIA. (INCH.) & TYPE	FAN: TYPE OF DRIVE	FAN MOTOR: HP	FAN MOTOR: AMPS	FAN MOTOR: VOLTS	FAN MOTOR: PH.	HOT WATER HEATING COIL: F.A. FT²	TUBE FACE	ROWS	FACE DIMENSION	AIR: ON	AIR: OFF	AIR: FRICT. (INCH.)	WATER: GPM	WATER: ON	WATER: OFF	WATER: CIRCUIT	WATER: TUBES PER PASS	WATER: NO. OF PASSES	WATER: FRICT. (FT.)	AIR FILTER: NO.	AIR FILTER: SIZE, EACH (INCH.)	MANUFACTURER & CATALOG NO.	APPROXIMATE OPERATING WEIGHT (LBS.)
CRHU-1	750	1/2	1	9" DIDW	DIRECT	1/8	3.2	120	1	1.5	8	4	12" x 8"	74°F	134°F	0.21	2.5	180°F	140°F	1/8	1	32	1.0	1	16X20X2	DRAYER-HANSON HRC 154	1180

NOTE: SEE DET. 1/H-4 & 4/H-4

H & V UNIT AHV-1 MIXING DAMPER SCHEDULE

ZONE	CFM	DAMPER MOTOR BY PAU NO.	DAMPER MOTOR BY PAU SIZE OF EACH DAMPER (INCHES)	DUCT SIZE (INCHES) AT MIXING DAMPER	DUCT SIZE (INCHES) TO ZONE	ROOM NO. SERVED
1	480	2	6 x 8	12 x 17 3/4	12 x 12 SPLIT TO TWO 12 x 6	1, 2 & 3
2	440	2	6 x 8	12 x 17 3/4	12 x 8	6, 10 & 11
3	460	2	6 x 8	12 x 17 3/4	14 x 8	5

NOTE: PROVIDE OPPOSED BLADE VOLUME DAMPER W/ QUADRANT REGULATOR FOR EACH ZONE.

FAN SCHEDULE

MARK	FAN: CFM	FAN: APPROX. S.P. (INCH.)	FAN: TYPE OF DRIVE	FAN: TYPE	FAN MOTOR: H.P.	FAN MOTOR: VOLTS	FAN MOTOR: PH.	FAN MOTOR: R.P.M.	MANUFACTURER & MODEL NO.	LOCATION "UNIT"	APPROXIMATE OPERATING WT. (LBS)
ME-1	2200	1/4	BELT	UTILITY SLT	1/2	240	1	1750	AM. BLWR. SIROCCO SIZE 165	"MP"	220
ME-2	1030	1/8	DIRECT	ROOF	1/12	120	1	860	JENN-AIR 12B6R	"MP"	110
ME 3,4 OR 5	300	1/10	DIRECT	CEILING	87 WATTS	120	1	—	PRYNE 215 C	"MP"	20
MFF-1	3550@2"	—	DIRECT	PROPELLER	1/20	120	1	1000	ILG SIZE UA 205	"MP"	30
ALE-1	160	1/8	DIRECT	ROOF	1/25	120	1	1550	JENN-AIR 7 1 CR	"AL"	25
ALE-2 OR 3	100	1/10	DIRECT	CEILING	58 WATTS	120	1	-	PRYNE 2208 C W/ 3 SPEED MOTOR	"AL"	20
KE-1 OR 2	100	1/10	DIRECT	CEILING	87 WATTS	120	1	-	PRYNE 215 C	"K"	20

HOT WATER HEATING PUMP SCHEDULE

MARK	PUMP: G.P.M.	PUMP: HEAD (FT.)	PUMP MOTOR: H.P.	PUMP MOTOR: VOLTS	PUMP MOTOR: PHASE	PUMP MOTOR: R.P.M.	MANUFACTURER & CATALOG NO.	APPROXIMATE OPERATING WT. (LBS)	"UNIT" SERVED	LOCATION "UNIT"
MHP-MHV1	7.6	18	1/3	120	1	1750	TACO, NO 112, 1 1/4" LINE SIZE	35	"MHP"	"MP"
MHP-AHV1	9.5	30	1/3	120	1	1750	TACO, HIGH HEAD # 195, 1 1/4" LINE SIZE	54	"AL"	"MP"
C2HP-C1	10.0	30	1/3	120	1	1750	TACO, HIGH HEAD # 195, 1 1/4" LINE SIZE	54	"C1"	"C2"
C2HP-C2	10.0	30	1/3	120	1	1750	↓	54	"C2"	"C2"
C4HP-C3	10.0	30	1/3	120	1	1750		54	"C3"	"C4"
C4HP-C4	10.0	30	1/3	120	1	1750		54	"C4"	"C4"

NOTE: EACH HOT WATER HEATING PUMP SHALL HAVE FLANGED CONNECTIONS.

GRAVITY TYPE WALL HEATER SCHEDULE

MARK	CAPACITY (BTU/HR) INPUT	CAPACITY (BTU/HR) OUTPUT	OVAL VENT SIZE	FUEL	MANUFACTURER & MODEL NO.	ROOM SERVED	LOCATION "UNIT"
MPH-9	25,000	17,500	4"	GAS	HOLLY-GENERAL HARROWALL-25 SNGLS	TEACHER'S DINING RM # 9	"MP"
CIH-6	25,000	17,500	4"	GAS	↓	OFFICE RM # C1-6	"C1"

WATER BOILER SCHEDULE

MARK	CAPACITY (BTU/HR) INPUT	CAPACITY (BTU/HR) OUTPUT	VENT DIA. (INCH)	FUEL	TYPE	CONSTRUCTION (STAMPED ON HEATER)	MANUFACTURER & CATALOG NO.	APPROXIMATE OPERATING WT.	LOCATION "UNIT"
MWB-1	400,000	320,000	9	GAS	WATER-TUBE	125 PSI. A.S.M.E. CODE	AJAX WG-400	1230	"MP"
CLWB-1	675,000	540,000	12	↓	↓	↓	AJAX WG-675	1840	"C2"
C4WB-1	675,000	540,000	12				AJAX WG-675	1840	"C4"

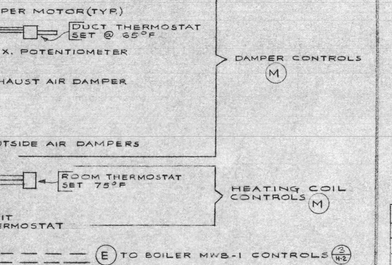
FORCED AIR FURNACE SCHEDULE

MARK	FURNACE: CAPACITY (BTU/HR) INPUT	FURNACE: CAPACITY (BTU/HR) OUTPUT	FURNACE: AIR C.F.M.	FURNACE: AIR ON	FURNACE: AIR OFF	FURNACE: VENT SIZE	FAN: MFR.	FAN: C.F.M.	FAN: APPROX. EXT. S.P.	FAN: WHEEL DIA.	FAN MOTOR: MFR.	FAN MOTOR: H.P.	FAN MOTOR: VOLT	FAN MOTOR: PH.	FAN MOTOR: RPM	AIR FILTERS: NO.	AIR FILTERS: SIZE (INCH)	APPROXIMATE OPERATING WEIGHT	LOCATION
KF-1	105,000	84,000	1650	65°	115°	8" DIA.	HAYES 360-CF	1650	3/4"	11 3/8"	CLARAGE	3/4	240	1	1750	1	20X25X2	630 LBS.	UNIT "K" RM # 6

ENTIRE ASSEMBLY SHALL BE HAYES TYPE SED-CF FURNACE AND CABINET BLOWER TYPE CF AS MANUFACTURED BY HAYES FURNACE MANUFACTURING & SUPPLY CO.

NOTES:
1. SEE "CONTROL DIAGRAM: LEGEND & GENERAL NOTES" SHT H-4.
2. PROVIDE MECHANICAL STOPS ON DAMPERS TO PROVIDE 25% (MIN) OUTSIDE AIR & 75% (MAX) RETURN AIR.

2 HEATING SYSTEM KF-1 CONTROL DIAGRAM



NOTE: SEE "CONTROL DIAGRAM: LEGEND & GENERAL NOTES" SHT H-4.

4 CLASSROOM HEATING UNIT CRHU-1 CONTROL DIAGRAM

CONTROL DIAGRAMS: LEGEND & GENERAL NOTES

(M) FURNISHED & INSTALLED UNDER H & V SECTION OF SPEC'S
(ME) FURNISHED & LOW VOLTAGE WIRING & CONDUIT UNDER H & V SECTION OF SPEC'S INSTALLED & LINE VOLTAGE WIRING & CONDUIT UNDER ELECT. SECTION OF SPEC'S
(ME2) FURNISHED & INSTALLED UNDER H & V SECTION OF SPEC'S WIRING & CONDUIT UNDER ELECT. SECTION OF SPEC'S.
(E) FURNISHED & INSTALLED UNDER ELECT. SECTION OF SPEC'S.

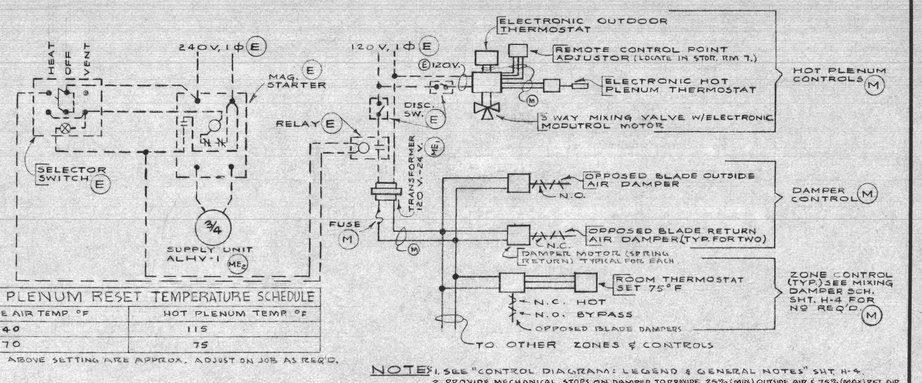
1. ALL LOW VOLTAGE WIRING & CONDUIT UNLESS CLEARLY NOTED OR INDICATED OTHERWISE, SHALL BE FURNISHED, INSTALLED & CONNECTED UNDER H & V SECTION OF SPEC'S.
2. ALL LINE VOLTAGE WIRING & CONDUIT UNLESS CLEARLY NOTED OR INDICATED OTHERWISE SHALL BE FURNISHED, INSTALLED & CONNECTED UNDER ELECT. SECTION OF SPEC'S.
3. FURNISH & INSTALL A DIAL TYPE THERMOMETER ADJACENT TO EACH DUCT THERMOSTAT.

NOTES:
1. SEE "CONTROL DIAGRAM: LEGEND & GENERAL NOTES" SHT H-4.
2. PROVIDE MECHANICAL STOPS ON DAMPERS TO PROVIDE 25% (MIN) OUTSIDE AIR AND 75% (MAX) RETURN AIR.

3 HEATING SYSTEM MHV-1 CONTROL DIAGRAM

HOT PLENUM RESET TEMPERATURE SCHEDULE	
OUTSIDE AIR TEMP °F	HOT PLENUM TEMP °F
40	115
70	75

NOTE: ABOVE SETTING ARE APPROX. ADJUST ON JOB AS REQ'D.



NOTES:
1. SEE "CONTROL DIAGRAM: LEGEND & GENERAL NOTES" SHT. H-4.
2. PROVIDE MECHANICAL STOPS ON DAMPER TO PROVIDE 25% (MIN) OUTSIDE AIR & 75% (MAX) RET. AIR

5 HEATING SYSTEM ALHV-1 CONTROL DIAGRAM

APPROVED: ARCHITECT — Alan Tomoto; ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE — APPL. NO. 2222 — DATE MAR 28 1962 — PRINCIPAL STRUCTURAL ENGINEER

APPROVED: FOR THE DISTRICT

SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA

P & K COMPANY
MECHANICAL ENGINEERING
542 S. BROADWAY — MA. 8-2329
LOS ANGELES 13, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING: 3/28/62
DRAWN BY: H. S.
DRAWING NO. H-4
OF 52

PANEL 'M'

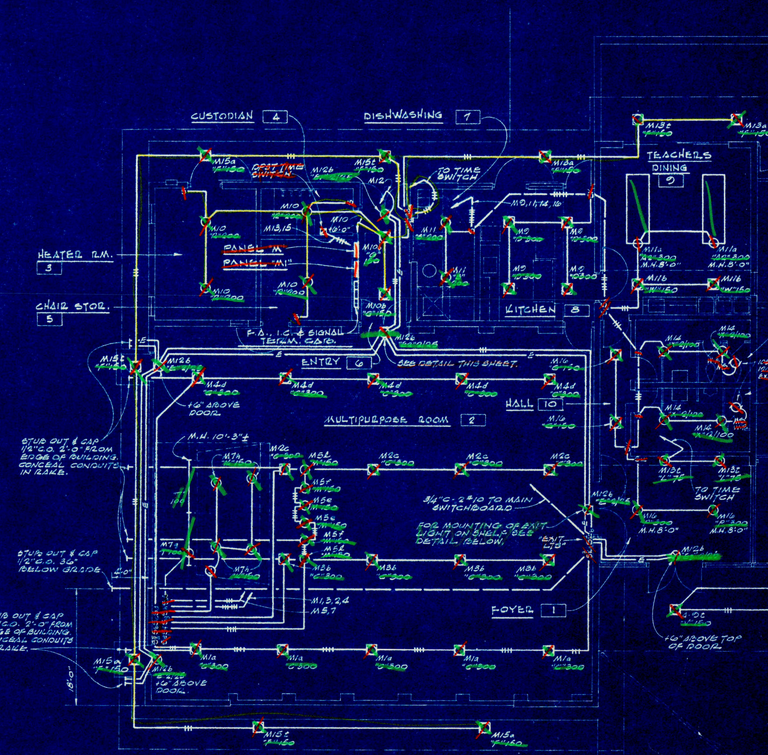
120/240 V. 1φ 3 WIRE — FLUSH

CIR. NO	OUTLETS LTG.	OUTLETS REC.	LOCATION	ROUGH QTG.	ROUGH Δ	ROUGH Yo
1	5		MULTIPURPOSE ROOM	203-1P	1500	
2	4				1200	
3	4					1200
4	5					1500
5	6				1080	
6			SPARE			
7	5		MULTIPURPOSE ROOM			1080
8			SPARE			
9	4		KITCHEN		1200	
10	6		HEATER, STOR., JAN., HALL		1160	
11	6		DISHWASHING, DINING			1360
12	6		EXIT LIGHTS			1080
13	5		EXTERIOR		900	
14	4	2 FANS	TOILETS		1160	
15	6		EXTERIOR			1080
16	4		HALL, FOYER			960
17			SPARES			
18						
19						
20						
TOTAL 164 GDN. @ 120/240 V. - 1φ = 67 AMPS					8200	8260

PANEL 'M1'

120/240 V. 1φ 3 WIRE — FLUSH

CIR. NO	OUTLETS LTG.	OUTLETS REC.	LOCATION	ROUGH QTG.	ROUGH Δ	ROUGH Yo
1	1		MULTIPURPOSE ROOM	203-1P	500	
2	2				400	
3	3					600
4	2		JAN., HEATER			400
5	1		KITCHEN		1000	
6		2 EXH FAN			660	
7	1					1000
8	2					400
9	1		DINING		500	
10	4-1760		KITCHEN HALL		800	
11	4		DINING, FOYER			800
12	J BOX		BOILER CONTROL			500
13	1/15 HP		EXH. FAN	152-1P	220	
14	1/8 HP		PUMP	152-1P	700	
15	1/8 HP		GARBAGE DISPOSAL	152-1P		700
16	1/8 HP		PUMP	152-1P		700
17	2-1/2 HP		CIRC. PUMPS	203-1P	500	
18			SPARE			
19						
20						
21						
22						
23						
24						
25	3/4 HP		SUPPLY FAN	152-2P	660	
26	1 HP		DISHWASHER	203-2P	750	
27	—		2P. W/CKT. #25	—		660
28	—		2P. W/CKT. #26	—		750
29	1/2 HP		EXH. FAN	152-2P	450	
30	1/2 HP		COMPRESSOR	152-2P	450	
31	—		2P. W/CKT. #29	—		450
32	—		2P. W/CKT. #30	—		450
33	1		240V-1φ REC.	203-2P	500	
34	1		RANGE	503-2P	4000	
35	—		2P. W/CKT. #33	—		500
36	—		2P. W/CKT. #34	—		4000
TOTAL 23,940 W. @ 120/240V-1φ = 100 AMPS					12,060	11900



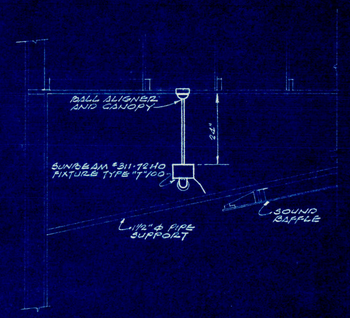
LIGHTING PLAN – ADMINISTRATION & LIBRARY BLDG.

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

LIGHTING PLAN – MULTIPURPOSE BUILDING

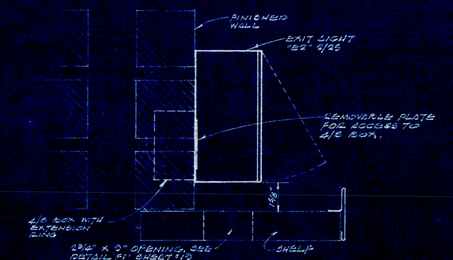
SCALE: 1/8" = 1'-0"

NORTH



SOUND BAFFLE BACKLIGHT DETAIL

SCALE: NONE



SHELF

EXIT LIGHT MOUNTING DETAIL

SCALE: NONE

APPROVED: _____ ARCHITECT
_____ ENGINEER LEE 2240

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
APPL. NO. 22220
MAR 28 1962
DATE — PRINCIPAL STRUCTURAL ENGINEER

APPROVED: _____ FOR THE DISTRICT

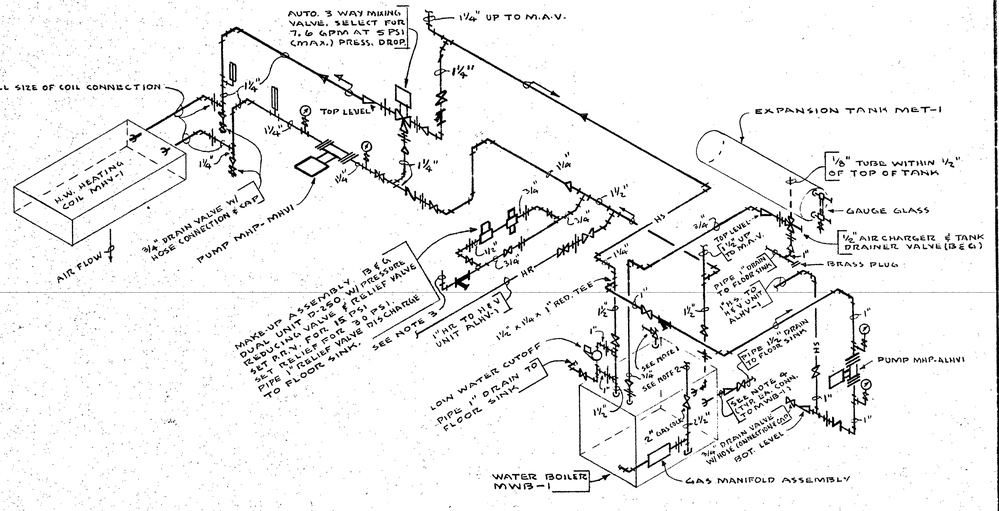
SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA

EARL L. HOLMBERG AND ASSOCIATES
ELECTRICAL ENGINEERS
2525 HYPERION NO. 42921
LOS ANGELES 27, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 8/24/62
DRAWN BY

DRAWING NO. E-2
OF 52

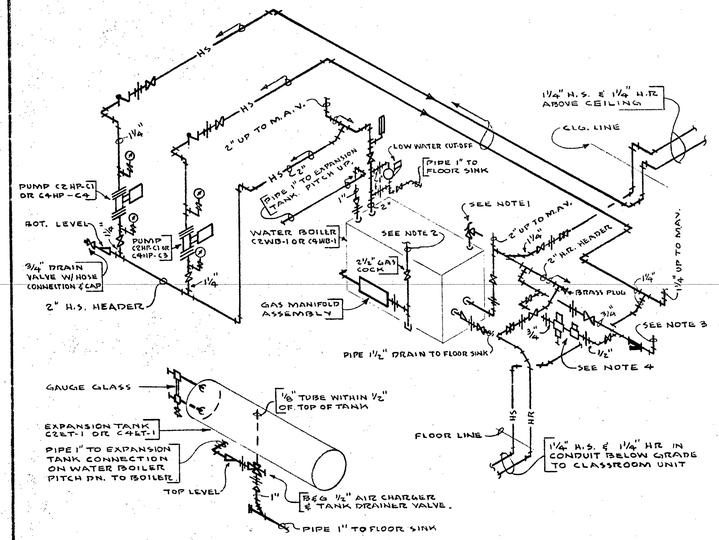


NOTES:

1. A.S.M.E. CODE PRESSURE RELIEF VALVE. 320,000 BTU/HR. CAPACITY. SET FOR 30 P.S.I. PIPE FULL SIZE OF DISCHARGE TO FLOOR SINK.
2. 2" GAS PIPING UP TO CLG. CONNECT TO GAS PIPE PROVIDED UNDER PLBG. SECTION OF SPEC'S. SEE PLBG. DWGS FOR LOCATION.
3. ¾" COLD WATER MAKE-UP PIPING UP TO CLG. CONNECT TO C.W. PIPE PROVIDED UNDER PLBG SECTION OF SPEC'S. SEE PLBG. DWGS. FOR LOCATION.
4. EACH CONNECTION TO WATER BOILER MWB-1 SHALL BE FULL SIZE OF BOILER CONNECTION. USE REDUCING FITTINGS AS REQUIRED.

(1) HEATER ROOM Nº 3 "MP" BLDG. PIPING DIAGRAM

NOT TO SCALE

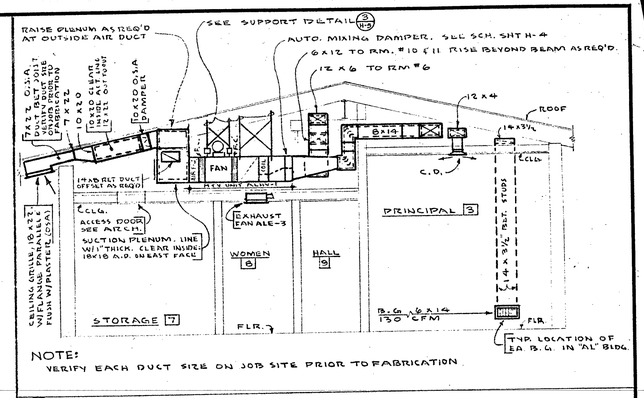


NOTES:

1. A.S.M.E. CODE PRESSURE RELIEF VALVE. 540,000 BTU/HR CAPACITY. SET FOR 30 PSI. PIPE FULL SIZE OF DISCHARGE TO FLOOR SINK.
2. 2½" GAS PIPING UP TO CLG. CONNECT TO GAS PIPE PROVIDED UNDER PLBG. SECTION OF SPEC'S. SEE PLBG. DWGS. FOR LOCATION.
3. ¾" COLD WATER MAKE-UP UP TO CLG. CONNECT TO C.W. PIPING PROVIDED UNDER PLBG. SECTION OF SPEC'S. SEE PLBG. DWGS. FOR LOCATION.
4. MAKE-UP ASSEMBLY, B&G. DUAL UNIT D-250 W/PRESSURE REDUCING VALVE & PRESSURE RELIEF VALVE. SET P.R.V. FOR 12 PSI. SET RELIEF FOR 30 PSI. PIPE 1" RELIEF VALVE DISCHARGE TO FLOOR SINK.
5. EACH CONNECTION TO WATER BOILER SHALL FULL SIZE OF BOILER CONNECTION. USE REDUCING FITTINGS AS REQ'D.

(2) HEATER ROOM C2-3 OR C4-3 PIPING DIAGRAM

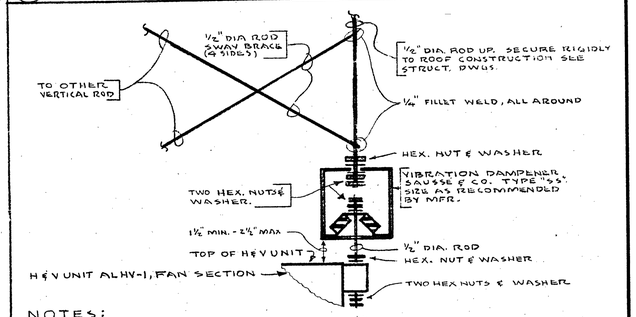
NOT TO SCALE



NOTE:
VERIFY EACH DUCT SIZE ON JOB SITE PRIOR TO FABRICATION

(A) SECTION (LOOKING SOUTH)

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

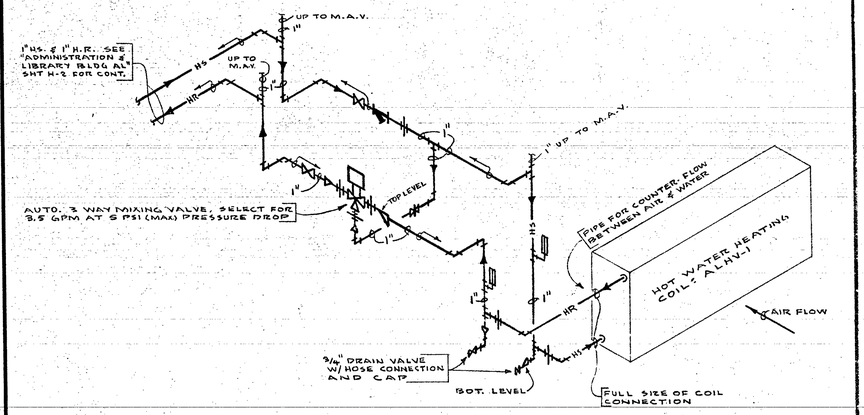


NOTES:

1. THIS DETAIL INDICATES ONE ROD ONLY. REPEAT FOR THREE OTHER RODS.
2. SUPPORT ALL OTHER SECTIONS OF H&V UNIT ALHV-1 FROM ROOF JOIST USING RODS, SWAY BRACE ETC AS INDICATED FOR FAN SECTION; OMIT VIBRATION DAMPENER ON OTHER SECTIONS.

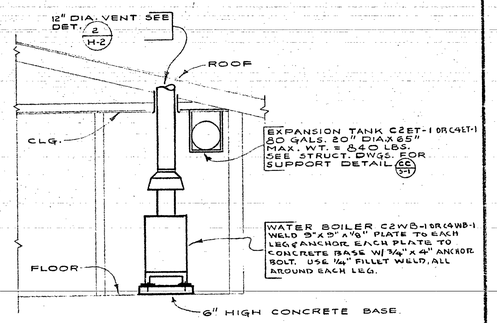
(3) H&V UNIT ALHV-1 SUPPORT DETAIL

NOT TO SCALE

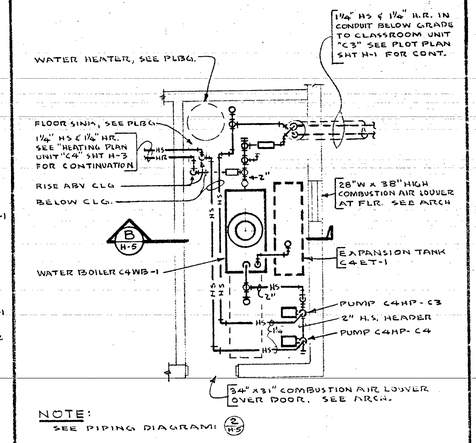


(4) HOT WATER HEATING COIL ALHV-1 PIPING DIAGRAM

NOT TO SCALE



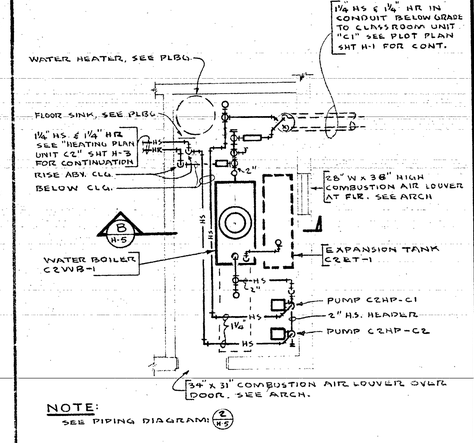
(B) SECTION (LOOKING WEST) SCALE: 1/4"=1'-0"



NOTE:
SEE PIPING DIAGRAM: 2/H-5

(5) HEATER ROOM C4-3 PLAN

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

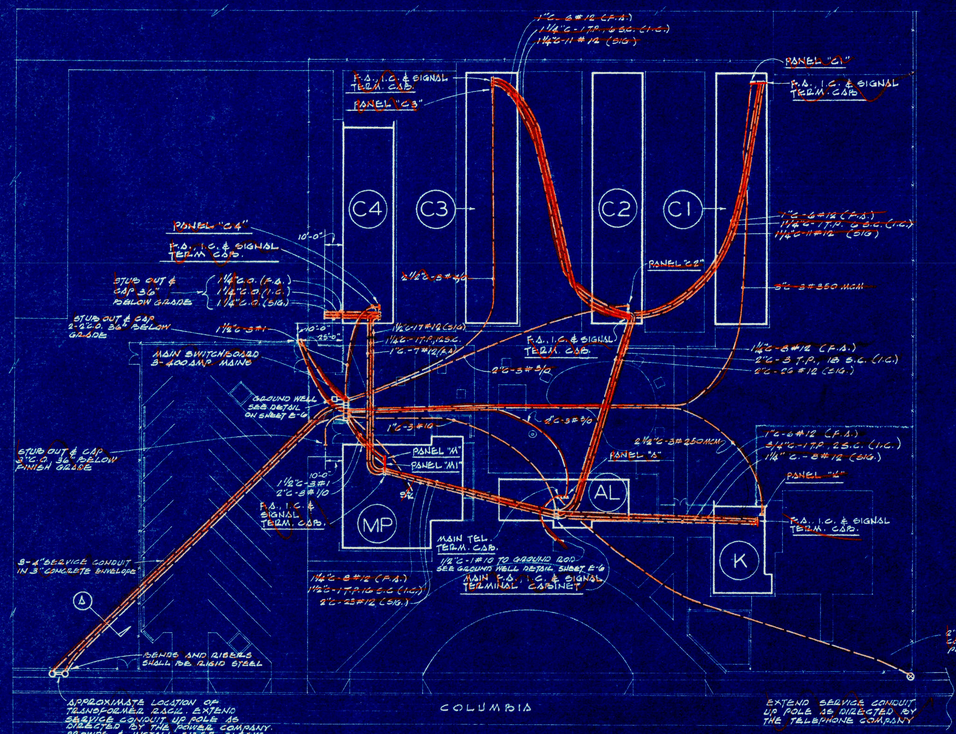


NOTE:
SEE PIPING DIAGRAM: 2/H-5

(6) HEATER ROOM C2-3 PLAN

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

APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE; APPL. NO. 22220; DATE MAR 28 1962; PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT; COLUMBIA AT CORNELL, WESTMINSTER, CALIFORNIA	P & K COMPANY MECHANICAL ENGINEERING 542 S. BROADWAY MA. 6-2329 LOS ANGELES 13, CALIFORNIA	LEE B. KLINE, ARCHITECT, A.I.A. 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 3/28/62; DRAWN BY H.S. & A.K.; DRAWING NO. H-5; OF 52



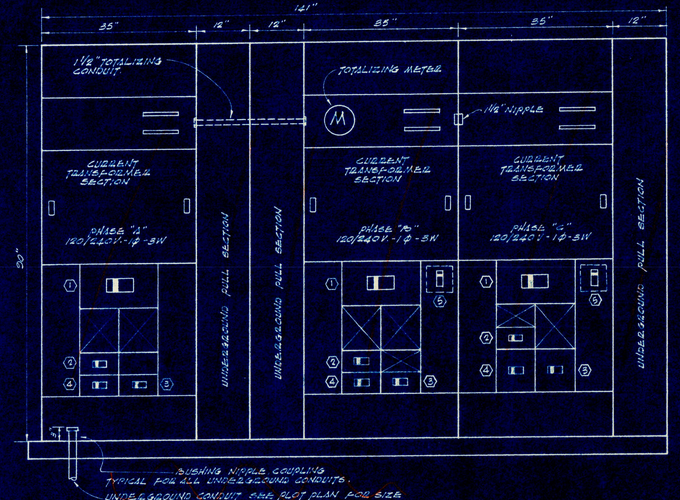
PLOT PLAN

SCALE: 1" = 40'-0"

NORTH

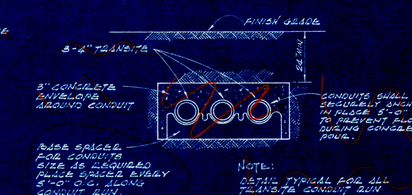
SWITCHBOARD NOTES

1. SWITCHBOARD CONSTRUCTION SHALL BE DEAD FRONT DEAD REAR OF PAINTED 14 GAUGE SHEET STEEL CONSTRUCTION.
2. SWITCHBOARD FINISH SHALL BE GRAY HAMMERTONE ENAMEL. SWITCHBOARD WEATHERPROOF HOUSING SHALL BE PAINTED COLOR AS DIRECTED BY ARCHITECT.
3. SWITCHBOARD SHALL BE COMPLETELY WEATHER, DUST & WATER TIGHT WITH LOCKING HINGED DOORS. PROVIDE LOCKING DEVICE FOR DOORS.
4. SWITCHBOARD CONSTRUCTION SHALL MEET ALL THE REQUIREMENTS OF THE SO. CALIF. EDISON CO.
5. FIRE ALARM POWER SUPPLY BREAKER SHALL BE MOUNTED UNDER A SEALABLE COVER WITH PLUSH LOCK. NAME PLATE SHALL BE ED. ON WHITE LAMINATED BAKELITE 1"X3½" ENGRAVED: 20A-1P FIRE ALARM POWER SUPPLY.
6. PROVIDE & INSTALL BLACK ON WHITE LAMINATED BAKELITE 1"X2½" NAME PLATE. SEE NAMEPLATE SCHEDULE FOR ENGRAVING.
7. ALL BREAKERS SHALL BE EQUIPPED WITH LOCK-OFF DEVICES.
8. ALL BREAKERS SHALL BE WESTINGHOUSE TYPE "AB".
9. SWITCHBOARD SHALL BE ANCHORED TO CONCRETE PAD WITH 5/8" CINCH ANCHOR BOLTS. MINIMUM 4 BOLTS PER CUBICLE.
10. EACH SECTION SHALL BE FULL LENGTH BUSSED FOR 400 AMPS. BUSSING SHALL BE OF THE BUS BAR TYPE AND SHALL BE SILVER PLATED.



MAIN SWITCHBOARD ELEVATION

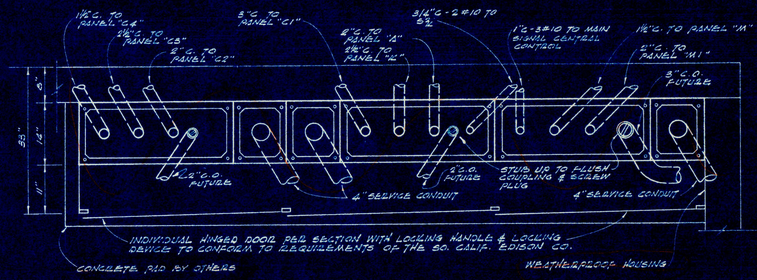
SCALE: ½" = 1'-0"



NOTE: DETAIL TYPICAL FOR ALL TRANSITE CONDUIT RUN

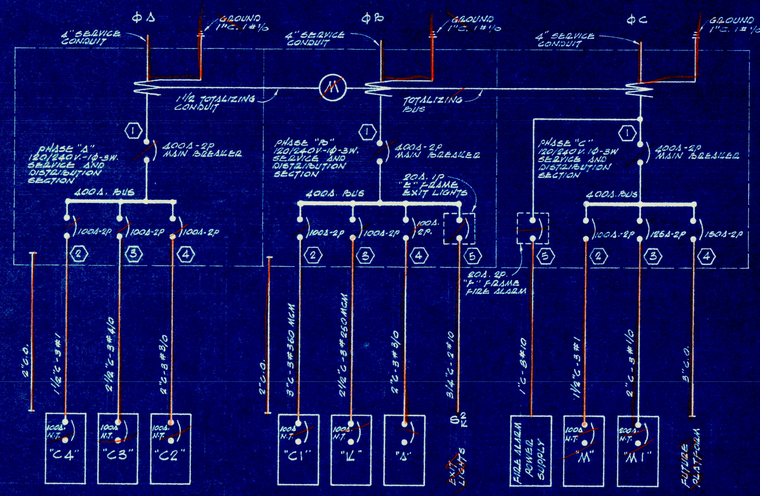
DUCT BANK DETAIL 'A'

SCALE: NONE



SWITCHBOARD TEMPLATE

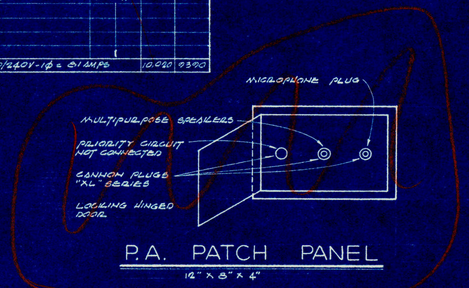
SCALE: ¾" = 1'-0"


ΦA
ΦB
ΦC
GROUND 1"C. 1#10
4" SERVICE CONDUIT
1½ TOTALIZING CONDUIT
TOTALIZING BUS
M
PHASE "A" 120/240V-1Φ-3W SERVICE AND DISTRIBUTION SECTION
PHASE "B" 120/240V-1Φ-3W SERVICE AND DISTRIBUTION SECTION
PHASE "C" 120/240V-1Φ-3W SERVICE AND DISTRIBUTION SECTION
400A. 2P MAIN BREAKER
400A. BUS
100A-2P
100A-3P
100A-2P
100A-2P
100A-2

PANEL 'A'

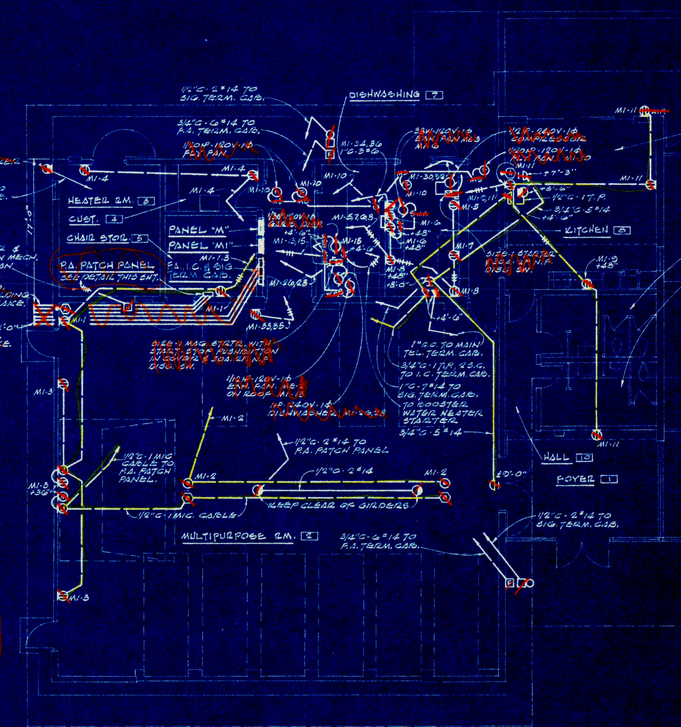
120/240 V. 1Φ 3 WIRE — FLUSH

CIR NO	OUTLETS L/Ω	OUTLETS REC.	LOCATION	POLE QTY	POLE Ω	BUS A	BUS B
1	4		LIBRARY	20A-1P		1200	
2	5	FAN	NURSE, TOILET, OTIC			1320	
3	4		LIBRARY, WORK RM.				1600
4	6		CLERK, PUBLIC				1600
5	3	FAN	PRINCIPAL, MEN			960	
6	7	FAN	HALL, WOMEN, STOR.			1440	
7	3		REST AREA				660
8	2		EXTERIOR				600
9		1	TEL. CAB.			500	
10		1	CONTROL			500	
11	5		ARCADE, PASSAGE				1650
12		5	REST AREA, OTIC				540
13		1	NURSES			500	
14		4	TOILET, NURSES REST AREA			720	
15		3	NURSES, PUBLIC				540
16		3	REST AREA, CLERK				540
17		1	HALL	20A-2P		500	
18		3	CLERK, PRINCIPAL	20A-1P		540	
19		2	2P. W'CUIT #17				500
20		2	PUBLIC, WOMEN TOILET	20A-1P			360
21		4	HOSE RM., MEN, PRIN.			720	
22		J BOX	SIG. CENTRAL CONTROL			500	
23		3	LIBRARY				540
24		1/6 HP	CIRC. PUMP	15A-1P			250
25		3/4 HP	H & V UNIT	15A-2P		420	
26			3 PHASE	20A-1P			
27		—	2P. W'CUIT #23	—			420
28			3 PHASE	20A-1P			
29							
30							
31							
32							
TOTAL	19,240 W @ 120/240 V-1Φ = 81 AMPS					10,020	8370



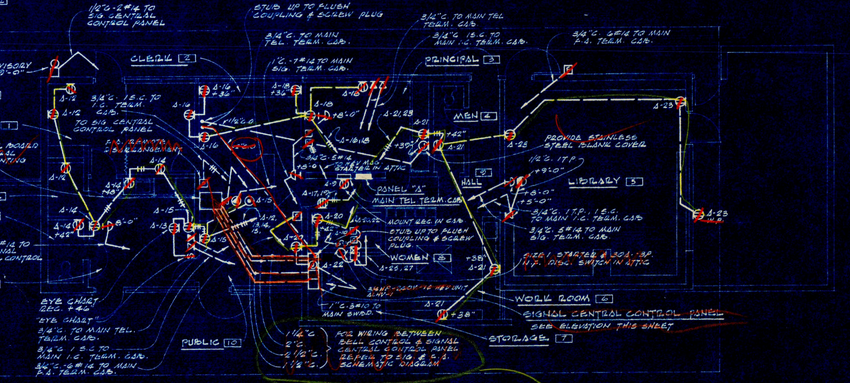
P.A. PATCH PANEL

12" x 8" x 4"



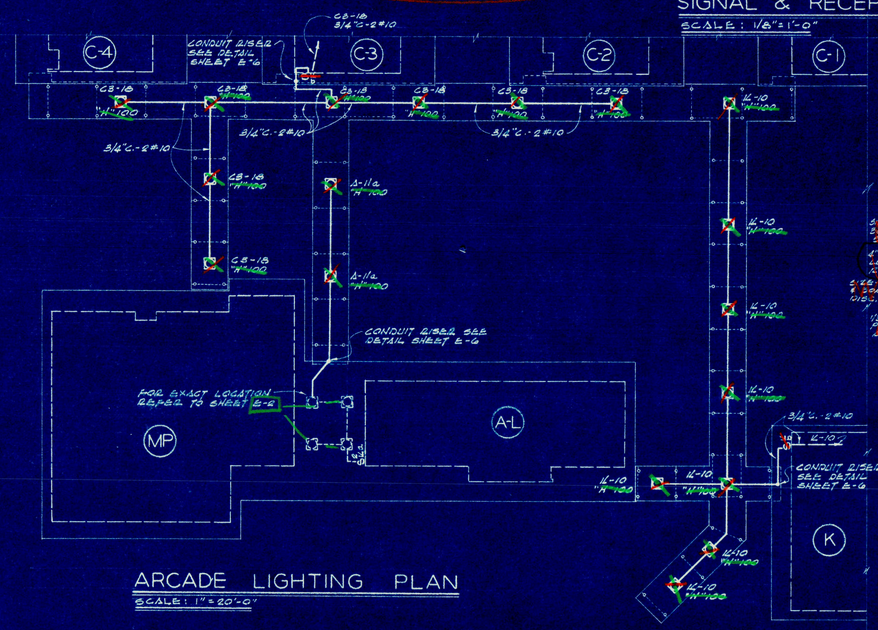
SIGNAL & RECEPTACLE PLAN – MULTIPURPOSE BLDG.

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



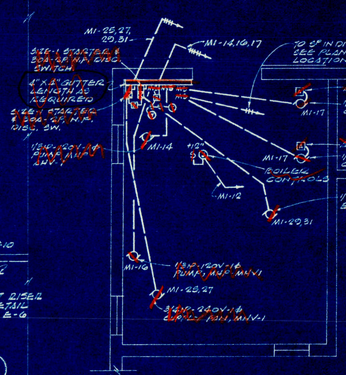
SIGNAL & RECEPTACLE PLAN – ADMINISTRATION & LIBRARY BLDG.

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



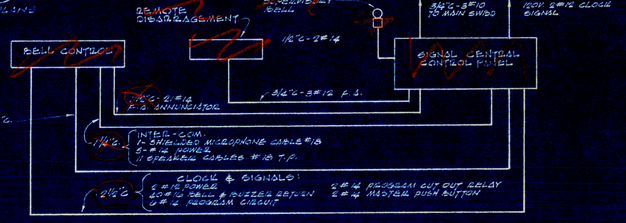
ARCADE LIGHTING PLAN

SCALE: 1" = 20'-0"

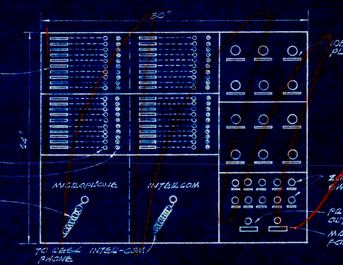


HEATER ROOM PLAN MULTIPURPOSE BLDG.

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

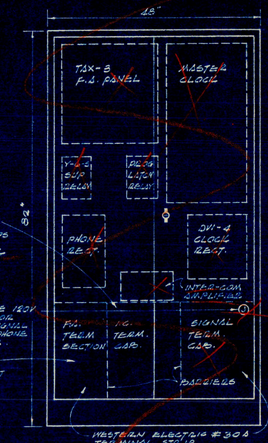


SIGNAL & FIRE ALARM SCHEMATIC DIAGRAM



BELL CONTROL BOARD

SCALE: NONE



SIGNAL CENTRAL CONTROL PANEL

SCALE: NONE

APPROVED:	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT	EARL L. HOLMBERG AND ASSOCIATES ELECTRICAL ENGINEERS	LEE B. KLINE, ARCHITECT, A.I.A.
ARCHITECT	22220		COLUMBIA AT CORNELL	2525 HYPERION NO. 4-2021	963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241
ENGINEER	APPL. NO. MAR 28 1962		WESTMINSTER, CALIFORNIA	LOS ANGELES 27, CALIFORNIA	DATE OF DRAWING 3/24/62 — DRAWN BY — DRAWING NO. E-3 OF 62
	DATE — PRINCIPAL STRUCTURAL ENGINEER				

PANEL 'C1'

120/240V. 1Φ 3 WIRE — FLUSH

CIR. No.	OUTLETS LTG.	OUTLETS REC.	LOCATION	POLE & TRIP LTG.	POLE & TRIP Δ	BUS Δ	BUS Yo
1	6		CLASSROOMS # 1, 2	20A-1P		1800	
2	6		CLASSROOM # 2			1800	
3	6		CLASSROOM # 1				1800
4	6		CLASSROOMS # 3, 4				1800
5	6		CLASSROOM # 4			1800	
6	5		ROOMS # 5, 6, 7			900	
7	6		ROOM # 4				1800
8	9		ARCADE				1460
9		3	CLASSROOM # 3			540	
10		3	CLASSROOM # 2			540	
11		4	CLASSROOM # 1 & OFF. #2				720
12		3	CLASSROOM # 4				540
13	2-1/6HP		HEATER UNIT # 3, 4			700	
14		2	ARCADE 240V.-1Φ	20A-2P		500	
15	2-1/6HP		HEATER UNIT # 1, 2	20A-1P			700
16		—	2P. W/CKT. # 14				500
17			SPARE	20A-1P			
18							
19							
20							
21							
22							
23							
24							
TOTAL 18060W. @ 120/240V.-1Φ = 75. AMPS						8580	9480

PANEL 'C2'

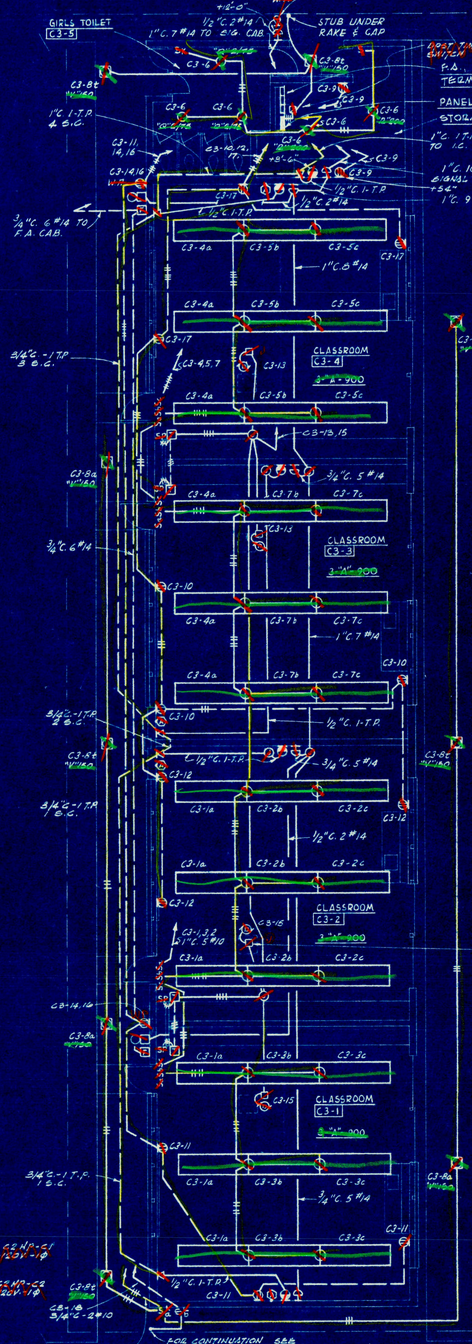
120/240V. 1Φ 3 WIRE — FLUSH

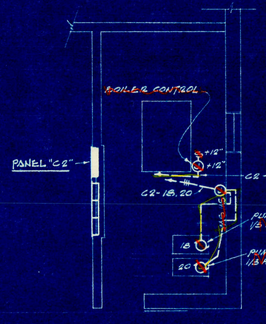
CIR. No.	OUTLETS LTG.	OUTLETS REC.	LOCATION	POLE & TRIP LTG.	POLE & TRIP Δ	BUS Δ	BUS Yo
1	6		CLASSROOMS # 2, 3	20A-1P		1800	
2	6		CLASSROOM # 1			1800	
3	6		CLASSROOM # 5				1800
4	6		CLASSROOMS # 6, 7				1800
5	6		CLASSROOM # 6			1800	
6	7		CLASSROOMS # 1, 2, 8			1260	
7	6		CLASSROOM # 7				1800
8	8		ARCADE				1440
9		3	CLASSROOM # 4			540	
10		3	CLASSROOM # 5			540	
11		3	CLASSROOM # 7				540
12		3	CLASSROOM # 6				540
13	2-1/6HP		HEATER UNIT # 4, 5	1		700	
14		2	ARCADE 240V.-1Φ T.L.	20A-2P		500	
15	2-1/6HP		HEATER UNIT # 6, 7	20A-1P			700
16		—	2P. W/CKT. # 14		—		500
17		2	CLASSROOMS # 1, 2	20A-1P		360	
18	1/3 HP		PUMP UNIT C2	15A-1P		700	
19	J. BOX		WATER BOILER	20A-1P			500
20	1/3 HP		PUMP UNIT C1	15A-1P			700
21			SPARE	20A-1P			
22							
23							
24							
25							
26							
27							
28							
TOTAL 20320W @ 120/240V.-1Φ = 84 AMPS						10,080	10320

PANEL 'C3'

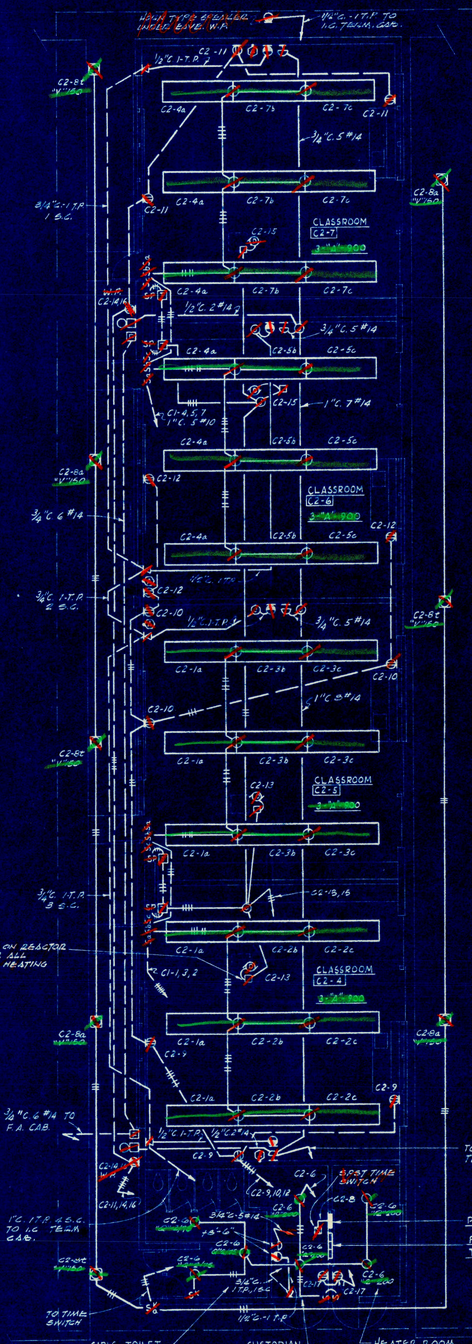
120/240 V. 1Φ 3 WIRE — FLUSH

CIR. No.	OUTLETS LTG.	OUTLETS REC.	LOCATION	POLE & TRIP LTG.	POLE & TRIP Δ	BUS Δ	BUS Yo
1	6		CLASSROOMS # 1, 2	20A-1P		1800	
2	6		CLASSROOM # 2			1800	
3	6		CLASSROOM # 1				1800
4	6		CLASSROOMS # 3, 4				1800
5	6		CLASSROOM # 4			1800	
6	5		CLASSROOMS # 5, 6			900	
7	6		CLASSROOM # 3				1800
8	9		ARCADE				1620
9		3	CLASSROOM # 6			540	
10		3	CLASSROOM # 5			540	
11		3	CLASSROOM # 1				540
12		3	CLASSROOM # 2				540
13	2-1/6HP		HEATER UNIT # 3, 4	1		700	
14		2	ARCADE 240V.-1Φ T.L.	20A-2P		500	
15	2-1/6HP		HEATER UNIT # 1, 2	20A-1P			700
16		—	2P. W/CKT. # 14		—		500
17		3	CLASSROOM # 2	20A-1P		540	
18	8		ARCADE	20A-1P		1440	
19			SPARE	20A-1P			
20							
21							
22							
23							
24							
TOTAL 19680W. @ 120/240V.-1Φ = 82 AMPS						10380	9300



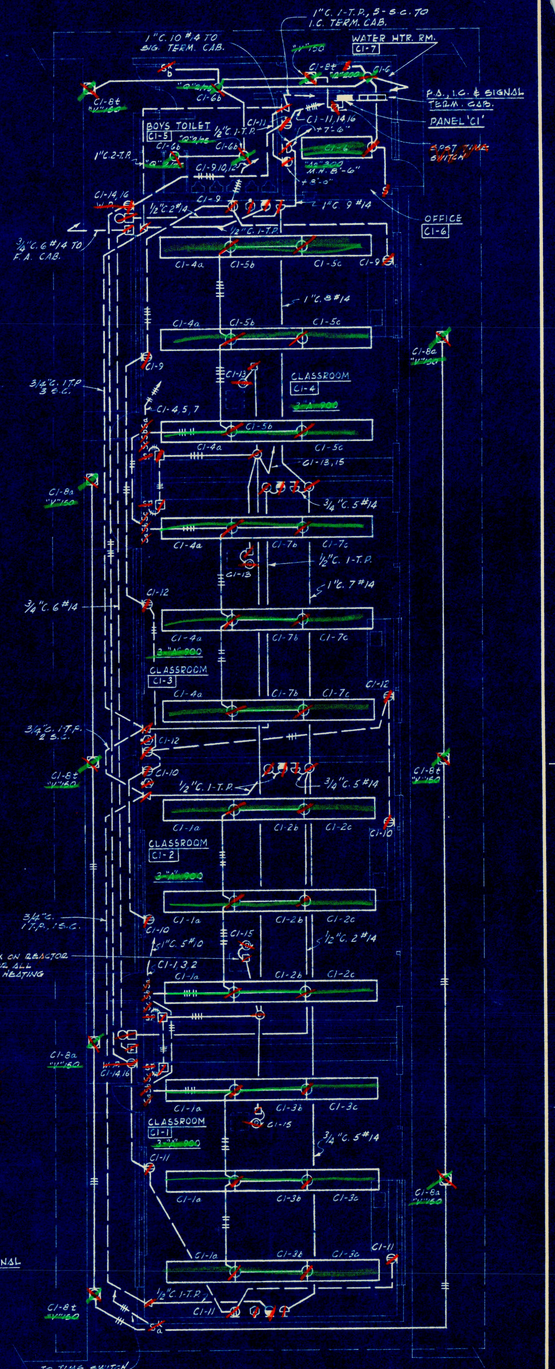


UNIT 'C2'
HEATER ROOM PLAN
SCALE: 1/4" = 1'-0"



UNIT 'C3'
SCALE: 1/8" = 1'-0"

UNIT 'C2'
SCALE: 1/8" = 1'-0"



UNIT 'C1'
SCALE: 1/8" = 1'-0"

NORTH
ALL PLANS

APPROVED: _____ ARCHITECT
_____ ENGINEER

APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
APPL. NO. 20220
DATE NOV 26 1962
PRINCIPAL STRUCTURAL ENGINEER

APPROVED: _____ FOR THE DISTRICT

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA

EARL L. HOLMBERG AND ASSOCIATES
ELECTRICAL ENGINEERS
2525 HYPERION NO. 42921
LOS ANGELES 27, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

BLK

DATE OF DRAWING 8/28/62
DRAWN BY
DRAWING NO. E-4
OF 52

PANEL 'K'

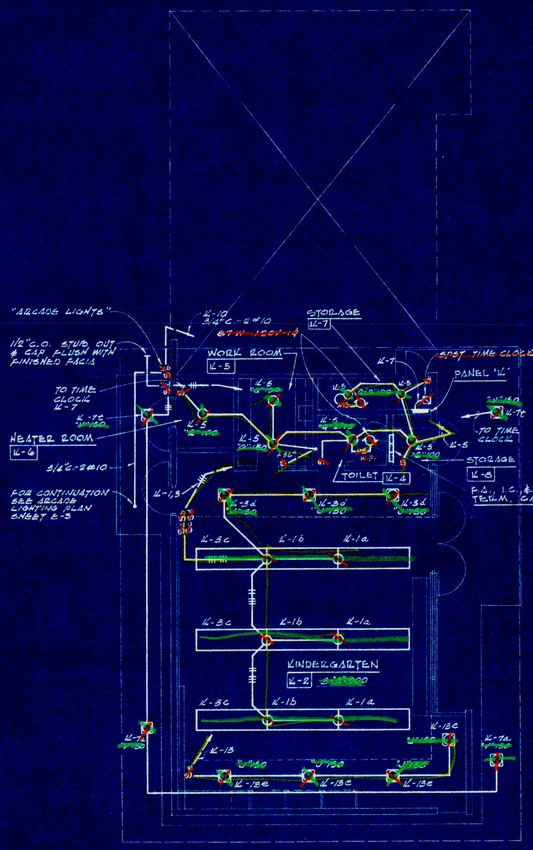
120/240 V. 1Φ - 3 WIRE — FLUSH

CIR NO	OUTLETS LTG	OUTLETS REC	LOCATION	BKR. AMPS.	BUS A	BUS B
1	6		KINDERGARTEN # 2	20A-1P	1800	
2			SPARE			
3	6		KINDERGARTEN # 2			1440
4			SPARE			
5	7	8 PAN	K-4, K-5, K-6, K-7, K-8		1620	
6		3	K-2, K-3, K-6		600	
7	4		ARCADE			720
8		2	WORK ROOM K-5, K-2			600
9		1	240V - 1Φ	20A-2P	800	
10	8		ARCADE	20A-1P	1440	
11		—	2P - W/CKT. #12	—		800
12		4	KINDERGARTEN # 2	20A-1P		800
13	4		KINDERGARTEN # 2		720	
14			SPARE			
15		J BOX	WATER HEATER			1000
16			SPARE			
17						
18						
19						
20						
21						
22		3/4HP	FAN UNIT K	15A-2P	620	
23			SPARE	20A-1P		
24		—	2P W/CKT #22	—		620
TOTAL 14380 W. @ 120/240 V.-1Φ = 59 AMPS					7600	6780

PANEL 'C4'

120/240 V. 1Φ - 3 WIRE — FLUSH

CIR NO	OUTLETS LTG.	OUTLETS REC.	LOCATION	BKR. AMPS.	BUS A	BUS B
1	6		CLASSROOMS # 4, 5	20A-1P	1800	
2	6		CLASSROOM # 4		1800	
3	6		CLASSROOM # 2			1800
4	3		CLASSROOM # 6			900
5	6		CLASSROOM # 6		1800	
6	1		TOILET, CUST., HEATER		1260	
7			SPARE			
8	1		ARCADE			1260
9		3	CLASSROOM # 4		540	
10		3	CLASSROOM # 5		540	
11			SPARE			
12		3	CLASSROOM # 6			540
13		1/6HP	HEATER UNIT C4-4, 3		700	
14		2	240V - 1Φ	20A-2P	500	
15		1/6 HP	HEATER UNIT C4-6	20A-1P		850
16		—	2P. W/CKT. # 14	—		500
17		2	CUSTODIAN, HEATER	20A-1P	340	
18		1/6HP	PUMP UNIT C4	15A-1P	700	
19		J. BOX	WATER BOILER	20A-1P		500
20		1/3HP	PUMP UNIT C3	15A-1P		720
21			SPARE	20A-1P		
22			SPARE			
23			SPRINKLER CONTROL			500
24			SPARE			
25						
26						
27						
28						
TOTAL 17050 W. @ 120/240 V.-1Φ = 71 AMPS					1000	7050



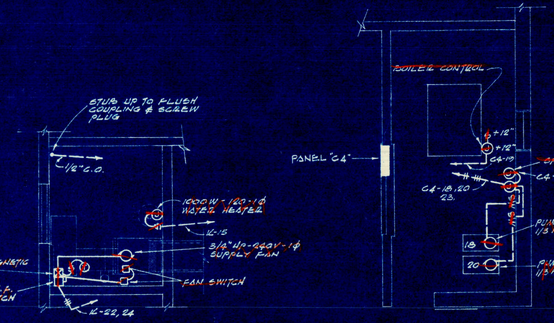
LIGHTING PLAN UNIT 'K'

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



RECEPTACLE PLAN UNIT 'K'

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

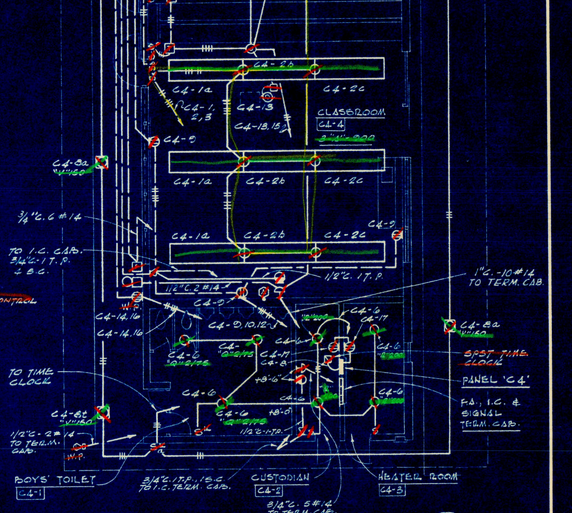


HEATER ROOM PLAN UNIT 'K'

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

HEATER ROOM PLAN UNIT 'C4'

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



CLASSROOM UNIT 'C4'

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

APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE	APPROVED: FOR THE DISTRICT
Lee B. Kline SEP 22 1961 / Earl L. Holmberg SEP 22 1961	22220 APPL. NO. MAR 28 1962 DATE — PRINCIPAL STRUCTURAL ENGINEER	John T. Kirkpatrick Jr.

SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA

EARL L. HOLMBERG AND ASSOCIATES ELECTRICAL ENGINEERS 2525 HYPERION NO. 42921 LOS ANGELES 27, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

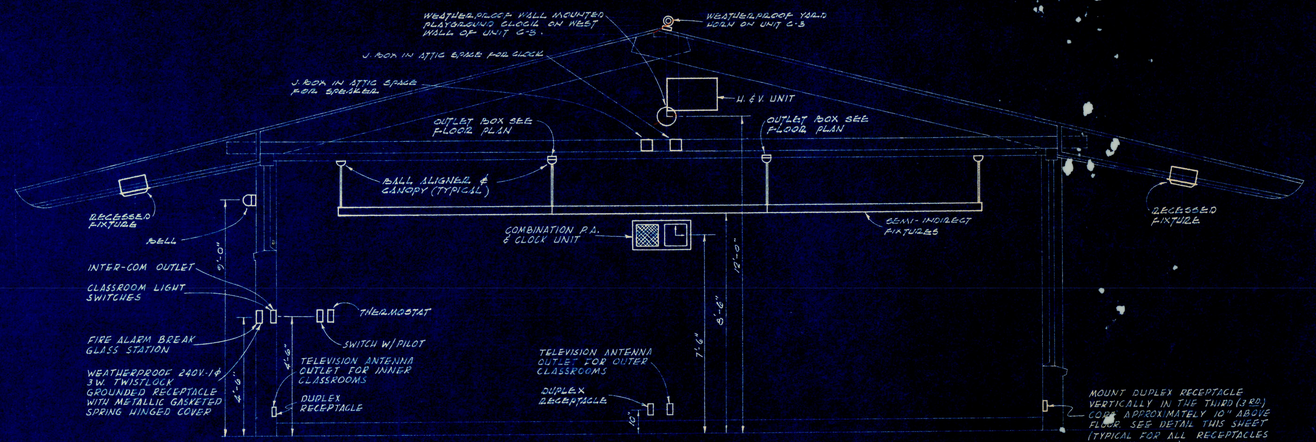
BK — DATE OF DRAWING 3/28/62 — DRAWN BY — DRAWING NO. E-5 OF 52

SYMBOLS

"A"200	CEILING LIGHT OUTLET; A-10 = CIRCUIT NUMBER - "A" 200 = FIXTURE TYPE & WATTS
	WALL OR BRACKET LIGHT OUTLET.
	RECESSED LIGHT FIXTURE, ROUND TRIM.
	RECESSED LIGHT FIXTURE, SQUARE TRIM.
	SLIMLINE OR FLUORESCENT LIGHT FIXTURE
	FLOOD LIGHT CLUSTER.
	EXIT LIGHT.
	DUPLEX CONVENIENCE RECEPTACLE, SEE SPECS. BRYANT # 5252.
	240 V. - 3 WIRE GROUNDED RECEPTACLE, TWISTLOCK, BRYANT # 7310-16.
	WALL MICROPHONE OUTLET - SEE NOTE # 6 THIS SHEET.
	240 V. HEAVY DUTY RECEPTACLE - BRYANT # 9304 - PLATE # 9302.
	JUNCTION BOX.
	FLOOR OUTLET, RUSSELL & STOLL # 2603 WITH 120 V. RECEPTACLE.
	LOW VOLTAGE TRANSFORMER, FURNISHED BY OTHERS.
	P.A. OUTLET.
	MOTOR, PROVIDE & INSTALL DISCONNECT SWITCH AT MOTOR.
	MOTOR OUTLET
	FLY FAN OUTLET - FAN FURNISHED BY OTHERS.
	PLUSH FLOOR TELEPHONE OUTLET, RUSSELL & STOLL # 2503.
	PLUSH FLOOR INTER-COM OUTLET, RUSSELL & STOLL # 2503.
	PLUSH FLOOR MICROPHONE OUTLET - RUSSELL & STOLL # 2503.
	TELEVISION OUTLET, SEE TELEVISION NOTE BELOW.
	BELL OUTLET
	SECONDARY CLOCK.
	MASTER CLOCK.
	INTER-COM OUTLET.
	TELEPHONE OUTLET.
	YARD HORN.
N.O.V.	N.O.V. SWITCH WITH PILOT LT. - 2 GANG PLATE - SEE DETAIL.
P	FIRE ALARM BREAK GLASS STATION.
T	THERMOSTAT, FURNISHED BY OTHERS.
R	RELAY FURNISHED BY OTHERS.
	TIME SWITCH WITH ASTRONOMIC DIAL, SEE GEN. NOTE # 5 & # SPECS.
	MAGNETIC STARTER.
	EX. O. SWITCH 30A. N.F. OR AS NOTED.
	TELEPHONE TERMINAL CABINET SEE DETAIL THIS SHEET.
	SIGNAL, FIRE ALARM & INTER-COM TERM. CAB. SEE DETAIL THIS SHEET
	LIGHTING PANEL, SEE DETAIL THIS SHEET.
	STAGE FLOOR POCKET - CW. COLE # TL-853-CM.
	MAIN SWITCHBOARD.
S	FLUSH SINGLE POLE SWITCH BRYANT # 4901
S^P	FLUSH SINGLE POLE SWITCH WITH PILOT LIGHT, BRYANT # 4901 + 4877 SIGNAL JEWEL DETAIL - 20 GANG PLATE
S^3	FLUSH 3-WAY SWITCH BRYANT # 4903
S^K	FLUSH SINGLE POLE KEY SWITCH, BRYANT # 4901-L.
S^{2K}	FLUSH DOUBLE POLE KEY SWITCH - BRYANT # 4902-L.
S^2	FLUSH DOUBLE POLE SWITCH - BRYANT # 4902.
S.C.	SHIELDED CABLE, BELDEN # 8760-18-100
TW. PR.	TWISTED PAIR. BELDEN # 8456
MS	MANUAL MOTOR SWITCH WITH THERMAL OVERLOAD.
MSP	MANUAL MOTOR SWITCH WITH THERMAL OVERLOAD & PILOT LT.
W.P.	WEATHER PROOF.
C.O.	CONDUIT ONLY.
	STUB UP ABOVE FLOOR AS REQUIRED.
	CONDUIT EXPOSED.
	CONDUIT CONCEALED IN CEILING OR WALLS.
	CONDUIT UNDERGROUND OR BELOW SLAB.
	FLEXIBLE METALLIC CONDUIT
	1/2" C. 2 #12 OR AS NOTED.
	1/2" C. 3 #12 OR AS NOTED.
	3/4" C. 4 #12 OR AS NOTED.
	3/4" C. 5 #12 OR AS NOTED.
	1" C. 6 #12 OR AS NOTED.

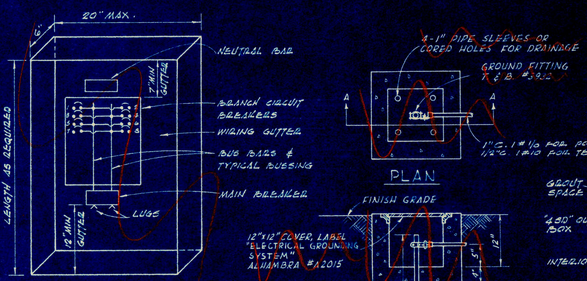
GENERAL NOTES

1. VERIFY EXACT LOCATION OF ALL ELECTRICAL OUTLETS, PANELS AND EQUIPMENT ON JOB SITE.
2. REFER TO ELECTRICAL SPECIFICATIONS BEFORE STARTING WORK.
3. COORDINATE OUTLET SPACING WITH ACOUSTIC TILE PATTERN.
4. ALL MICROPHONE PLUGS SHALL BE CANNON TYPE XL-3-16M AND INSTALL MOUNTING BRACKETS AS REQUIRED.
5. ALL EXTERIOR OUTLETS & EQUIPMENT SHALL BE COMPLETELY WEATHER PROOF & WATER TIGHT.
6. FLOOR OUTLETS SHALL BE FLUSH EVEN WITH THE FINISHED FLOOR.
7. ALL PENDANT FIXTURES SHALL HAVE MINIMUM THIRTY DEGREE (30°) PIVOT IN ALL DIRECTIONS FROM THE VERTICAL POSITION.
8. MOUNT TIME CLOCKS ABOVE OR ADJACENT TO LIGHTING PANELS UNLESS OTHERWISE SHOWN ON PLANS.
9. RECESSED FIXTURES SHALL HAVE 1/2" MINIMUM CLEARANCE FROM COMBUSTIBLE MATERIAL.
10. ENCLOSE ALL SWITCH PLATES AS NOTED ON PLANS SUCH AS "HEATER FAN", "EXH. FAN", "FLY FAN", EXIT LTS., ETC.
11. ALL TYPICAL DETAILS, CLASSROOM SECTION & ELEVATION SHALL BE REFERRED TO AND OBSERVED.
12. ELECTRICIAN WILL DO CONDUIT & WIRING FOR AQUASTAT CIRC. PUMPS AND ALSO CONDUIT & WIRING FOR CONTROL SYSTEM OF 60° WATER PUMP AS SHOWN ON MECHANICAL & ELECTRICAL DRAWING OR AS DIRECTED BY THE EQUIPMENT SUPPLIER.
13. NO BRANCH CIRCUIT WIRING SHALL BE SMALLER THAN # 12 AWG.
14. VERIFY EXACT LOCATION OF ALL HEATING & VENTILATING EQUIPMENT TO BE CONNECTED BY THIS CONTRACTOR ON JOB SITE. RUN WIRING TO SUCH CONTROLS AND TO LOCATIONS AS DIRECTED BY THE HEATING & VENTILATING CONTRACTOR.
15. INREGARD TO HEATING & VENTILATING WIRING, THE FOLLOWING COVERS SUCH WORK:
    A. ALL LOW VOLTAGE EQUIPMENT, CONTROL WIRING & CONDUIT SHALL BE FURNISHED & INSTALLED BY THE HEATING & VENTILATING CONTRACTOR.
    B. ALL LINE VOLTAGE CONDUITS, WIRING DISCONNECT SWITCHES, MAGNETIC STARTERS, THERMAL OVERLOAD SWITCHES, MANUAL MOTOR SWITCHES WITH THERMAL OVERLOAD PROTECTION, HEAT-VENT-OFF SWITCH AND PILOT LIGHTS SHALL BE FURNISHED & INSTALLED BY THE ELECTRICAL CONTRACTOR.
    C. ELECTRICAL CONTRACTOR SHALL MAKE ALL LINE VOLTAGE CONNECTIONS AND SHALL BE GUIDED BY DIAGRAMS SHOWN ON HEATING & VENTILATING DRAWINGS OR SUPPLIED BY THE HEATING & VENTILATING CONTRACTOR.
16. ALL MANUFACTURERS NAMES & CATALOG NUMBERS APPEARING IN THE ELECTRICAL SPECIFICATIONS OR ON THE DRAWINGS ARE PRESUMED TO BE FOLLOWED BY THE WORDS "OR EQUAL"
17. ALL PANELBOARDS, CABINETS, SWITCHBOARDS, LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT SHALL BEAR THE "UL" LABEL AND MEET ALL THE REQUIREMENTS OF THE "NEMA" STANDARDS.
18. ALL OUTLET BOX SIZES SHALL CONFORM TO CODE AS TO THE AMOUNT OF WIRE CAPACITY ALLOWED AND IN NO CASE LESS THAN A STANDARD 4" SQUARE X 1 1/2" DEEP BOX.
19. ALL FIXTURES IN ONE HOUR CONSTRUCTION SHALL BE FURNISHED WITH FIRE RATED HOUSING, AS APPROVED BY THE STATE FIRE MARSHALL'S OFFICE.
20. THE ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL THERMAL OVERLOAD SWITCH AT EACH FAN MOTOR UNLESS OTHERWISE NOTED.
21. ALL UNDERGROUND CONDUITS SHALL BE HUNT'S WRAPPED FOR SCHOOL INSTALLATION, MINIMUM 2 LAYER WRAPPING HUNT'S PROCESS # 8
22. CONCRETE MIX FOR UNDERGROUND STEEL CONDUITS OR NON METALLIC CONDUITS SHALL BE ONE PART CEMENT, THREE PARTS SAND AND FOUR PARTS PEA GRAVEL WITH (7) SEVEN GALLONS OF WATER. CONCRETE SHALL BE MINIMUM TWO THOUSAND POUNDS PER SQUARE INCH AT TWENTY EIGHT DAYS
23. ALL UNDERGROUND SERVICE & DISTRIBUTION CONDUITS SHALL BE MINIMUM 24" BELOW FINISHED GRADE OR AS NOTED.



COMPOSITE CLASSROOM SECTION

SCALE: 3/8" = 1'-0"



LIGHTING PANEL DETAIL

NOT TO SCALE

NOTE:
WHERE PANELBOARDS ARE LOCATED IN AREAS WITH SPRINKLER HEADS THE PANELBOARDS SHALL BE EQUIPPED WITH GASKETED DOOR & DRIP SHIELD. DRIP SHIELD SHALL BE MOUNTED ON PANELBOARD TRIM ONE INCH ABOVE DOOR OPENING AND SHALL EXTEND HORIZONTALLY ONE INCH BEYOND DOOR OPENING. PROVIDE GASKET BETWEEN DOOR, TRIM & CABINET

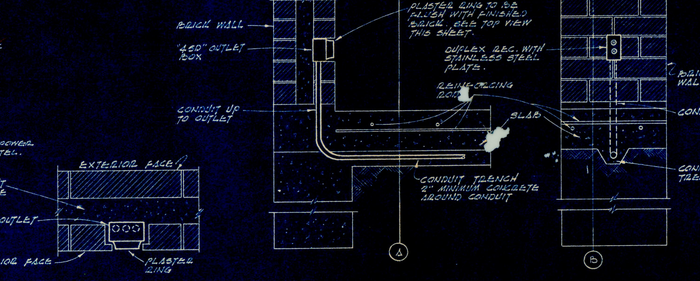
GROUND WELL DETAIL

SCALE: 3/4" = 1'-0"

PROVIDE WESTERN ELECTRIC # 304 A TERMINAL BLOCKS AS REQUIRED FOR FIRE ALARM & SIGNAL CONNECTIONS AND SOLDERED LUG "T" TYPE WITH INTERLOCK RUNNING STRING, SO LUGS REM AIN GINDAS 6-32, NO. 1851-2 OR EQUAL AND INDIVIDUAL LOCKING HINGED DOOR REAL COMPARTMENT. TELEPHONE CABINET SHALL HAVE 3/4" PLYWOOD BACKING. MOUNT AS DIRECTED BY TELEPHONE CO.

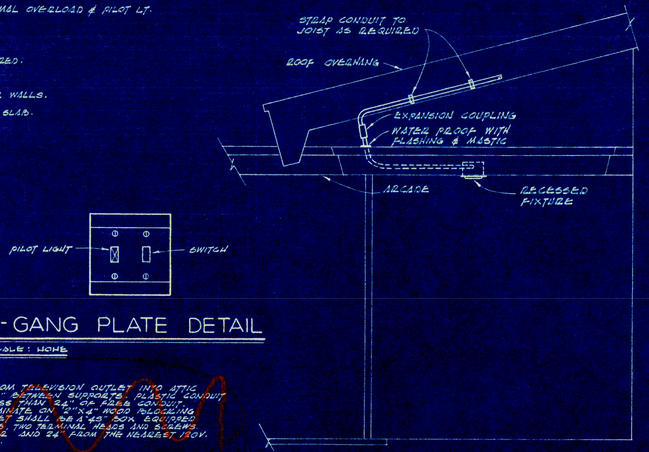
TERMINAL CABINET DETAILS

NOT TO SCALE:



CONDUIT DETAILS

NOT TO SCALE



ARCADE RISER DETAIL

NOT TO SCALE

2-GANG PLATE DETAIL

SCALE: NONE

TELEVISION NOTE:

PROVIDE & INSTALL 1/2" PLASTIC CONDUIT FROM TELEVISION OUTLET INTO ATTIC SPACE WITH ELBOWS 18" FROM OUTLET & 24" BEYOND SUPPORT. PLASTIC CONDUIT SHALL STUB INTO ATTIC SPACE WITH NOT LESS THAN 24" OF FREE CONDUIT. ALSO CONDUIT IN ATTIC SPACE SHALL TERMINATE ON 2"x4" WOOD BLOCKING ANCHORED TO THE CEILING JOIST. THE OUTLET SHALL BE A 4" SQ. BOX EQUIPPED WITH SINGLE PLASTER RING, PLASTIC PLATES, TWO TERMINAL HEADS AND BEARING OUTLET SHALL BE MOUNTED 12" ABOVE FLOOR AND 24" FROM THE NEAREST 110V. RECEPTACLE AS INDICATED ON THE PLANS.

FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION	WATTS	LOCATION
AA	ENSLOS	202-322 BOX COVER 10V-M LAMPHOLDER	ADJUSTABLE BOX MOUNTED	4-38-150W FLOOD	ADMINISTRATION
A	SUNBEAM	P132C-96 HO	PENDANT, 800 MA-BALLAST	800	CLASSROOM
A_1	SUNBEAM	P132B-96 HO	PENDANT, 800 MA-BALLAST	600	ADMINISTRATION
A_2	SUNBEAM	P132A-96 HO	PENDANT, 800 MA-BALLAST	500	CLASSROOM
B	SUNBEAM	P132A-72 HO	SURFACE, 800 MA-BALLAST	400	ADMINISTRATION
C	MARCO	P2130-M555-P	RECESS. DROP PRISMEL (1½")	300	MULTIPURPOSE
D	MARCO	P2130-M576-P	RECESS. FLAT PRISMEL	300	MULTIPURPOSE
E	MC PHILBEN	50W-GMX	WALL	2/25	MULTIPURPOSE
E_1	MC PHILBEN	50C-GMX	CEILING	2/25	MULTIPURPOSE
E_2	MC PHILBEN	50C-GWMX	SHELF	2/25	MULTIPURPOSE
E_3	MC PHILBEN	50P-GM	PENDANT	2/25	MULTIPURPOSE
F	MARCO	P2116-2P1-P	RECESS. DROP OPAL (1½")	150	MULTIPURPOSE
G	MARCO	P2131-M55-P	RECESS. DROP PRISMEL (1½")	150	MULTIPURPOSE
H	MARCO	310-P1-P	RECESS. DROP OPAL (1½")	100	ARCADE
J	MARCO	U1-M96-P	RECESS. FLAT PRISMEL	150	KINDERGARTEN
K	MARCO	P2C12-20-P	RECESS. DOWNLIGHT	150 2 TYPE	MULTIPURPOSE
L	MARCO	P2171	RECESS. LUMILESS APERTURE	75 6-32	MULTIPURPOSE
M	LITECRAFT	N602-W	SATIN ALUMINUM SWITCH BOCKET	150-PAR-38 FLOT	MULTIPURPOSE
P	MARCO	1016	PENDANT	300	MULTIPURPOSE
Q	LIGHTOLIER	6701	SURFACE OVAL GLASS BOWL	2/75	CLASSROOM TOILETS
R	ALADAX	878	PORC. SOCKET	AS NOTED	UTILITY ROOM
S	CROUSE-HINDS	ARB-88	SURFACE WATERPROOF	200	MULTIPURPOSE
T	SUNBEAM	811-72 HO	PENDANT 800 MA	100	MULTIPURPOSE
U	LITECRAFT	N687-E	WALL MOUNTED	75W. 220	ADMINISTATION
V	MARCO	310-2P1-P	RECESS. DROP OPAL (1½")	150	ADMINISTATION
W	MARCO	P2131-M96-P	RECESS. FLAT PRISMEL	150	MULTIPURPOSE
X	LIGHTOLIER	6702	SURFACE OVAL GLASS BOWL	2/100	MULTIPURPOSE

APPROVED:	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE	APPROVED: FOR THE DISTRICT
ARCHITECT	APPL. NO. 21220	
ENGINEER	DATE NOV 29 1962 PRINCIPAL STRUCTURAL ENGINEER	

SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

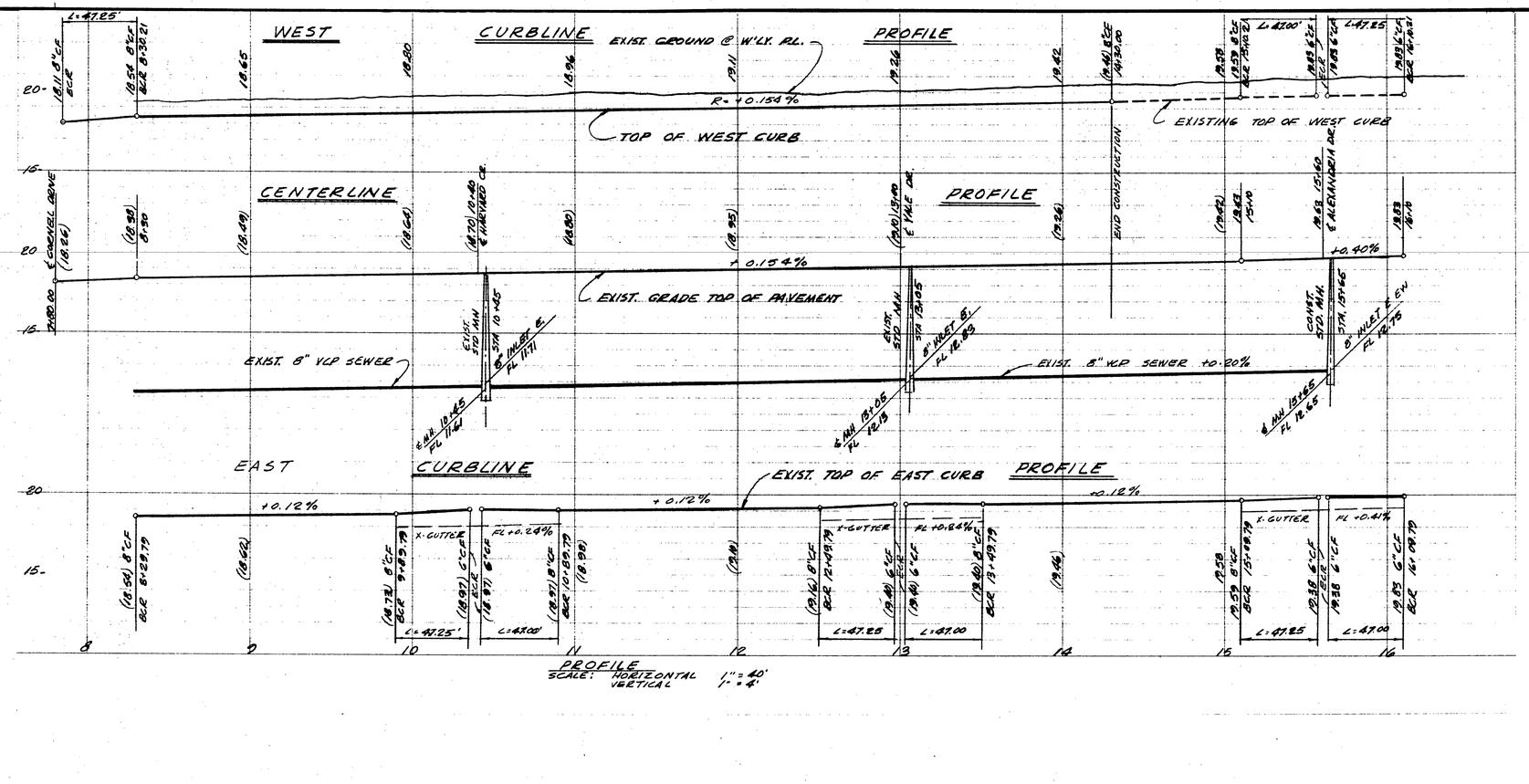
EARL L. HOLMBERG AND ASSOCIATES
ELECTRICAL ENGINEERS
2525 HYPERION NO. 42921
LOS ANGELES 27, CALIFORNIA

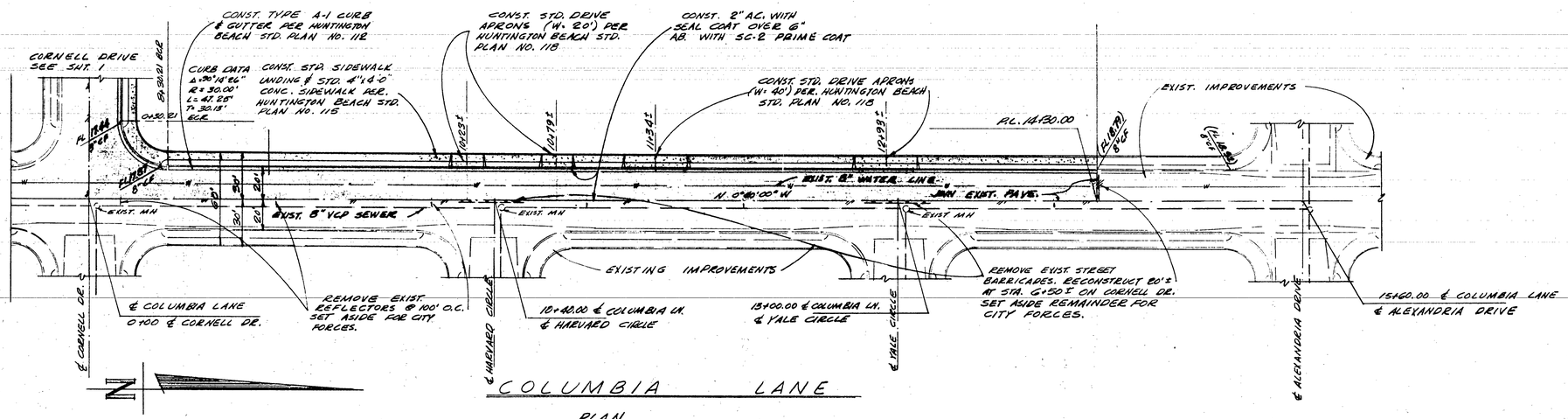
LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

BK

DATE OF DRAWING 2/22/62
DRAWN BY

DRAWING NO. E-6 OF 22

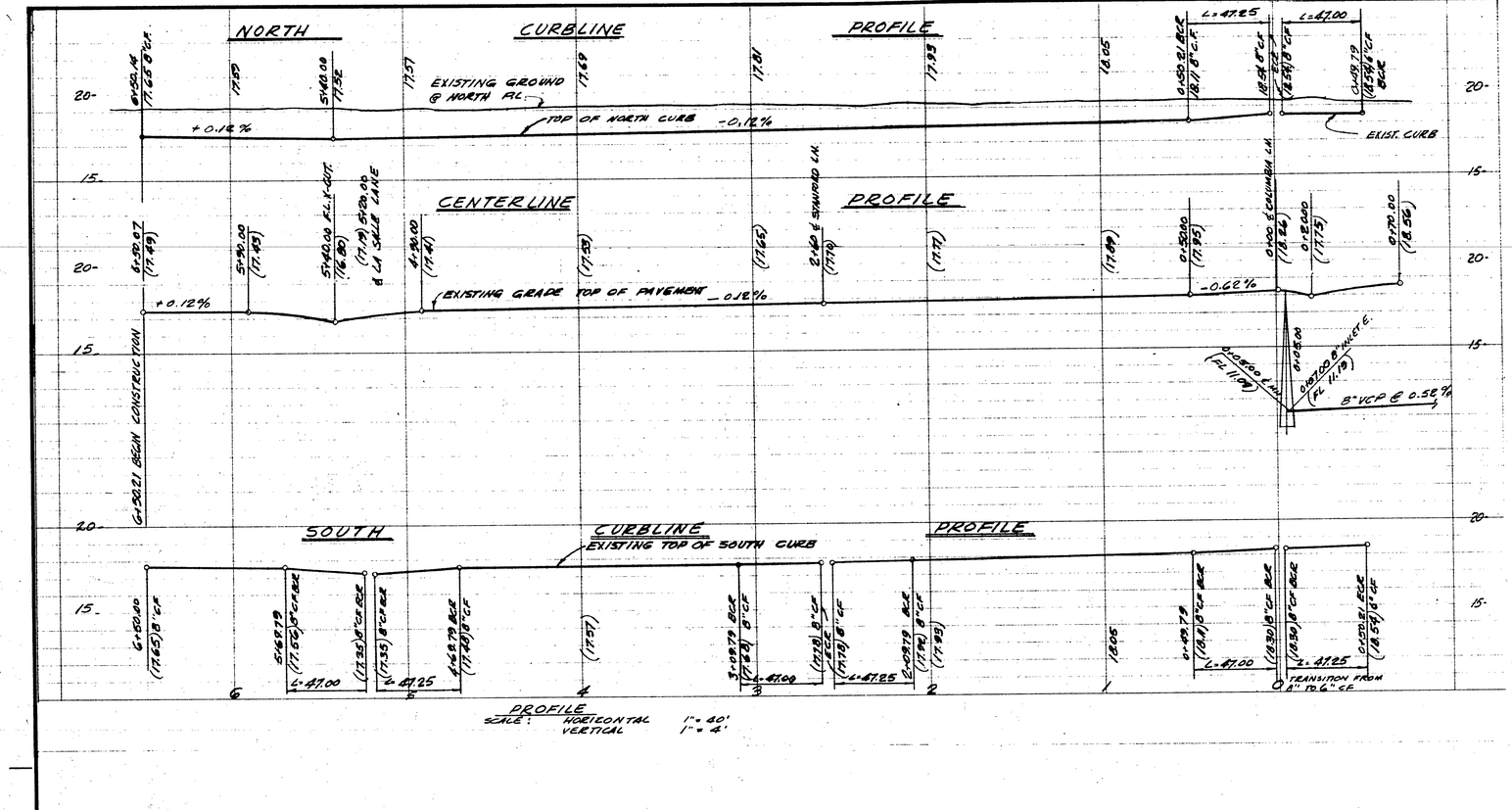




NOTE:
SEE GENERAL NOTES AND TYPICAL SECTION, SHEET 1

PREPARED BY:
WILLIAMSON AND SCHMID
CIVIL ENGINEERS
1523 EAST 1ST STREET 92701
SANTA ANA CALIFORNIA
Richard P. Schmid RCE 12261

APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE — APPL. NO. / DATE / PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT — COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA		LEE B. KLINE, ARCHITECT, A.I.A. — 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241	DATE OF DRAWING 9/20/62 — DRAWN BY J.M.M. — DRAWING NO. G1 — OF 52

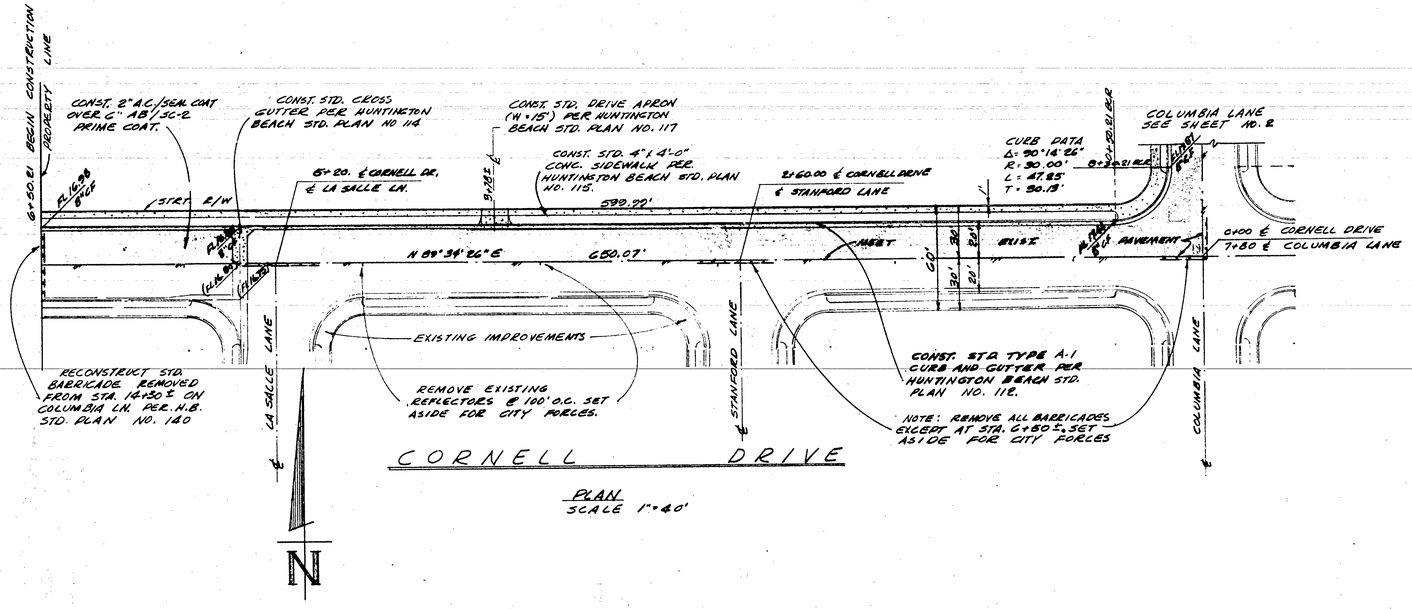


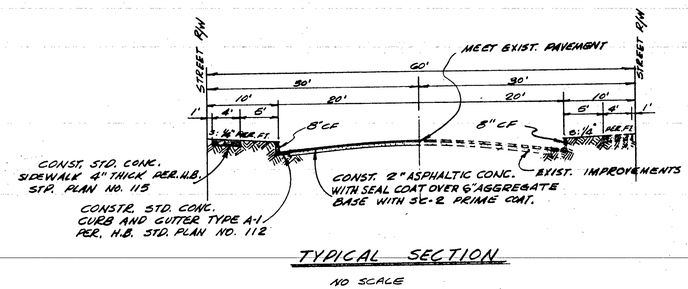
GENERAL NOTES

1. ALL WORK DONE SHALL CONFORM TO THE CITY OF HUNTINGTON BEACH STREETS AND HIGHWAY STANDARDS, JANUARY 30, 1957, WHERE APPLICABLE.
2. ANY EXISTING CITY OR COUNTY TRAVELWAYS IN WHICH EXCAVATION IS MADE IN CONJUNCTION WITH THIS PROJECT, WILL BE RESURFACED WITHIN TWO WEEKS AFTER EXCAVATION IS MADE.
3. GAS, WATER AND SEWER LATERALS TO BE INSTALLED PRIOR TO PAVING OF STREETS.
4. AFTER THE PLANT MIX SURFACING HAS BEEN OPENED TO TRAFFIC FOR A PERIOD OF NOT LESS THAN ONE WEEK, AN ASPHALTIC EMULSION SEAL COAT SHALL BE APPLIED AT APPROXIMATE RATE OF 0.10 GAL. PER. SQ. YD.
5. THE CONTRACTORS SHALL NOTIFY THE CITY ENGINEER AT LEAST 24 HOURS BEFORE STARTING ANY CONSTRUCTION.
6. ANY EXISTING STREET TORN UP UNDER THIS CONTRACT SHALL BE PROPERLY POSTED AND LIGHTED IN ORDER TO ELIMINATE ANY HAZARD.
7. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT SHOWN ON THESE PLANS.

ESTIMATE OF QUANTITIES

ITEM	QUANTITY
1. EXCAVATION	1250 CU.YD.
2. 2" ASPHALTIC CONCRETE WITH SEAL COAT	23,220 SQ.FT.
3. 6" AGGREGATE BASE WITH PRIME COAT	23,220 SQ.FT.
4. TYPE A-1 CONC. CURB & GUTTER	1,247 LIN.FT.
5. CONCRETE DRIVE APRON	1,425 SQ.FT.
6. STANDARD 4" x 4'-0" CONCRETE SIDEWALK	4,590 SQ.FT.
7. STANDARD CONCRETE CROSS GUTTER.	130 SQ.FT.
8. REMOVE & RELOCATE BARRICADES & REMOVE REFLECTORS.	L.S.





TYPICAL SECTION
NO SCALE

APPROVED BY: CITY OF HUNTINGTON BEACH DEPARTMENT OF ENGINEERING AND PUBLIC WORKS
DATE 3/21/67 James R. Wheeler
JAMES R. WHEELER - CITY ENG

PREPARED BY:
WILLIAMSON AND SCHMID
CIVIL ENGINEERS
1523 EAST 1ST STREET - RI-76721
SANTA ANA CALIFORNIA
Richard R. Schmid RCE 12861

APPROVED: ARCHITECT / ENGINEER

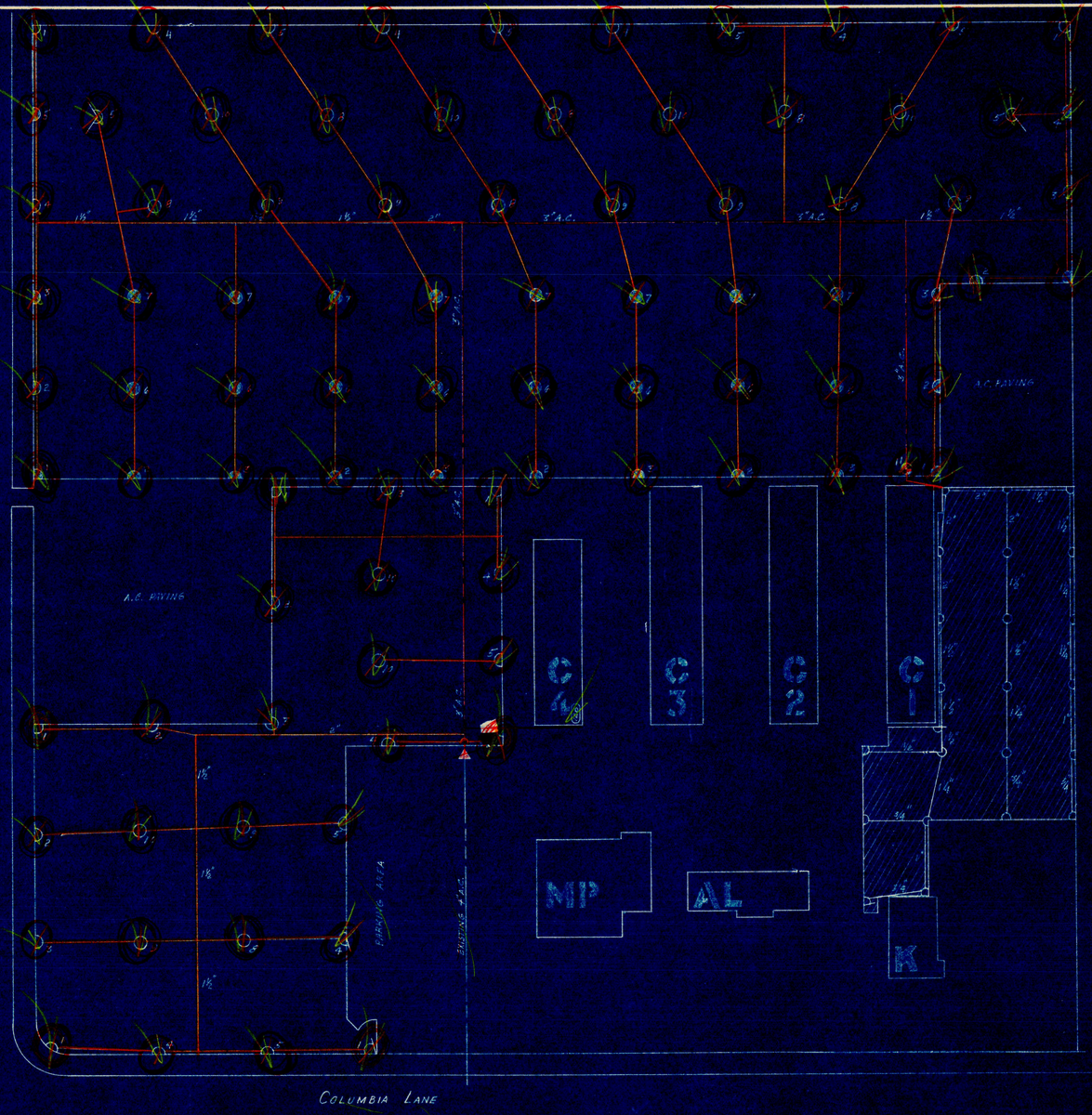
APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE
APPL. NO.
DATE PRINCIPAL STRUCTURAL ENGINEER

APPROVED: FOR THE DISTRICT

SCHOOL ON THE GRANT SITE FOR THE
WESTMINSTER SCHOOL DISTRICT
COLUMBIA AT CORNELL WESTMINSTER, CALIFORNIA

LEE B. KLINE, ARCHITECT, A.I.A.
963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241

DATE OF DRAWING 3/29/67
DRAWN BY JMM
DRAWING NO. 23
OF 52



LEGEND

QUANTITY	SYMBOL	MODEL	DESCRIPTION
33		652R	MOIST O'MATIC GEARED ROTOR, PART CIRCLE, NOZ. SET #30, 62'R., 13.4 g.p.m.
18		652R	" " " " " " , NOZ. SET #30, 56'R., 12.5 g.p.m.
21		634R	" " " " , FULL CIRCLE, 1/4 x 3/16 NOZ. SET, 62'R., 20.2 g.p.m.
16		634R	" " " " " " , 7/32 x 1/8 NOZ. SET, 57'R., 13.3 g.p.m.
67		203	" " PAYLESS REMOTE CONTROL VALVE, 3/4" CYCLAIC
21		204TBE	" " " " " " , 1" CYCLAIC
1	LED	126W	" " MONITOR II-STATION AUTOMATIC CONTROLLER, WALL MOUNT
1			VACUUM BREAKER, 3" APPROVED MODEL
			ASBESTOS-CEMENT PIPE, SIZES NOTED
			A.B.S. (I.P.S.) PIPE, 200# W.P., 1" UNLESS OTHERWISE NOTED
			POLYETHYLENE CONTROL TUBING, 1/4 O.D. x 1/8" I.D.

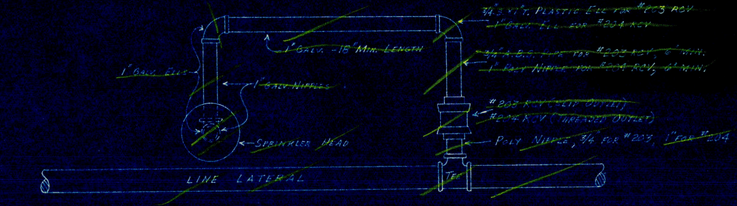
FUTURE AREA

6	FUTURE	611-44R	MOIST O'MATIC SMALL GEARED ROTOR, PART CIRCLE, 42'R., 2.5 g.p.m.
12		612-44R	" " " " " " , 5.0 g.p.m.
1		614-44R	" " " " " " , 10.0 g.p.m.
4		614-44A	" " " " , FULL CIRCLE, 42'R., 10.0 g.p.m.
1		410	" " REMOTE CONTROL VALVE, 2½" B.S.M.

ESTIMATED PIPE QUANTITY

3" A.C.	— 740'	+	35' FUTURE
2" A.B.S.	— 200'	+	160' FUTURE
1½ A.B.S.	— 500'	+	240' FUTURE
1¼ A.B.S.	—		160' FUTURE
1" A.B.S.	— 1,280'	+	80' FUTURE
¾" A.B.S.	—		160' FUTURE
½ A.B.S.	—		48' FUTURE
¼ O.D. POLY	— 20,200'		

RECOMMENDED INSTALLATION FOR VALVE UNDER HEAD



NOTES

THIS MOIST O'MATIC AUTOMATIC SPRINKLER SYSTEM IS DESIGNED TO DISTRIBUTE ½" OF WATER PER WATERING CYCLE OVER THE ENTIRE AREA, INCLUDING THE FUTURE AREA, IN ABOUT 6 HOURS TOTAL RUNNING TIME. TO ACCOMPLISH THIS, CONTROLLER STATION I WILL RUN 15 MINUTES, STATIONS 2-5 WILL RUN 25 MINUTES, AND STATIONS 6-11 WILL RUN 40 MINUTES.

A NUMBER BESIDE A HEAD INDICATES THE CONTROLLER STATION WHICH CONTROLS THAT HEAD. EACH OF THE 634 HEADS WITH ¼" x ⅜" NOZZLE SETS WILL BE CONTROLLED BY A 1" REMOTE CONTROL VALVE (#204) WHILE EACH OF ALL OTHER 652 AND 634 HEADS WILL BE CONTROLLED BY A ¾" VALVE (#203).

CONTROL TUBING FOR FUTURE AREA (STATION II) WILL BE LAID DURING THE INITIAL STAGE OF INSTALLATION. THE TUBING SHOULD BE PLUGGED AND CONTROLLER STATION II SET AT ZERO UNTIL THE FUTURE AREA IS INSTALLED.

ALL HEADS WILL BE RUBBER COVERED.

VACUUM BREAKER WILL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE.

MINIMUM PRESSURE AT THE BASE OF 652 AND 634 HEADS WILL BE 50 p.s.i. AT BASE OF 610 SERIES HEADS, IT WILL BE 45 p.s.i.

SPRINKLER PLAN
SCALE 1" = 40'-0"

NORTH

APPROVED: ARCHITECT / ENGINEER	APPROVED: STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WKS. DIVISION OF ARCHITECTURE — APPL. NO. — DATE — PRINCIPAL STRUCTURAL ENGINEER	APPROVED: FOR THE DISTRICT	SCHOOL ON THE GRANT SITE FOR THE WESTMINSTER SCHOOL DISTRICT — COLUMBIA AT CORNELL — WESTMINSTER, CALIFORNIA	SL-179 — CHECKED BY	LEE B. KLINE, ARCHITECT, A.I.A. — 963 WEST COLORADO LOS ANGELES 41 CLINTON 4-2241 — DATE OF DRAWING 3/29/62 — DRAWN BY — DRAWING NO. SP1 — OF 52