THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

FOR

BUSINESS INVESTMENT LTD.

ARCHITECT

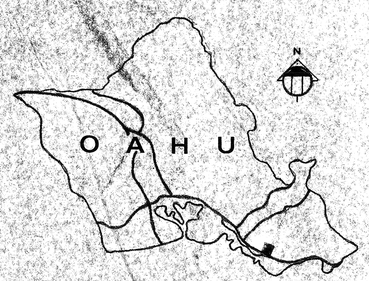
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII

CONSULTANTS

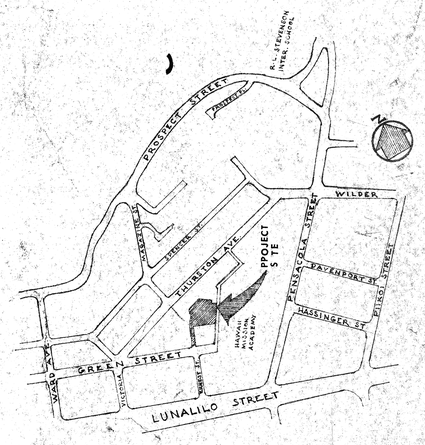
STRUCTURAL: RICHARD M LIBBEY INC.
ECONOMIC DEVELOPMENT &
ENGINEERING CONSULTANT, INC.

ELECTRICAL: DOUGLAS V. MAC MAHON LTD.

MECHANICAL: FERRIS & HAMIG INC.



LOCATION MAP



LOCATION MAP

NOTE:
APPROXIMATELY 185 CU.YD. OF TOP SOIL ARE REQUIRED FOR THE PLUMBERIA DECK AND PRIVATE GARDENS. SEE DETAIL FOR SOIL AMENDMENT.

7 | EUCALYPTUS

2 | EXIST'G AREC A PALM TO REMAIN

MATCHLINE SEE PLAN SHT.

EXIST'G PITTOSPORUM HEDGE

2 | EXIST'G MACADAMIA

DIA. 1.5'

DIA. 2.0'

1 | MONKEY POD
2 | PITTOSPORUM BOSQUE (TYP. OF 4)

MATCHLINE SEE PLAN SHT.

DIA. 1.5'

10 | BANYAN TREE

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

NORTH

1 | RELOCATED PLUMERIA
1 | RELOCATED SOUR SOP
19 | MONSTERA
11 | BANANA
1 | EXIST'G OPUNA TO REMAIN
1 | POMELO RELOCATED
HAWN GRASS
TOT LOT (SEE LANDSCAPE SHT. A-4)
HEDGE
3 | EXIST'G PLUMERIA
DRIVEWAY
HONAN GRASS
EXIST'G HEDGE
2 | BANYAN
2 | EXIST'G PANDANUS
RELOCATED POOL
10 | CANNAS
1 | RELOCATED TANGERINE
2 | TRAVELLERS PALM
8 | RED GINGER
1 | OPUNA TREE RELOCATED
8 | LEES
3 | EXIST'G MACADAMIA W/ CREEPER TO REMAIN
3 | MONSTERA
BENCH
BENCH
2 | RELOCATED MANGO
DIA. 1.5'
DIA. 1.0'
11 | CHINESE EVERGREEN IN PLANTER
COURT
21 | PANDANUS W/ ZEPHYR LILY BELOW
HONAN GRASS
POOL
1900 | PITTOSPORUM
1 | RELOCATED LITCHI TREE
NEW 4' CMU FENCE
102.0'
100 | MAHOENIA
11 | EUCALYPTUS

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

NORTH

1 | RELOCATED PLUMERIA
1 | RELOCATED DATE PALM
1 | EXIST'G DATE PALM TO REMAIN
1000 | PITTOSPORUM
2 | RELOCATED PLUMERIA
10 | BANYAN TREE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	1-25-79	D.L.U. REVIEW COMMENTS CHG.	PE
2		BY OWNER	PE
3	6-22-79	D.L.U. REVIEW COMMENTS CHG.	JM

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

MELVIN S. KURAOKA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 2768 HAWAII, U.S.A.

DMJM

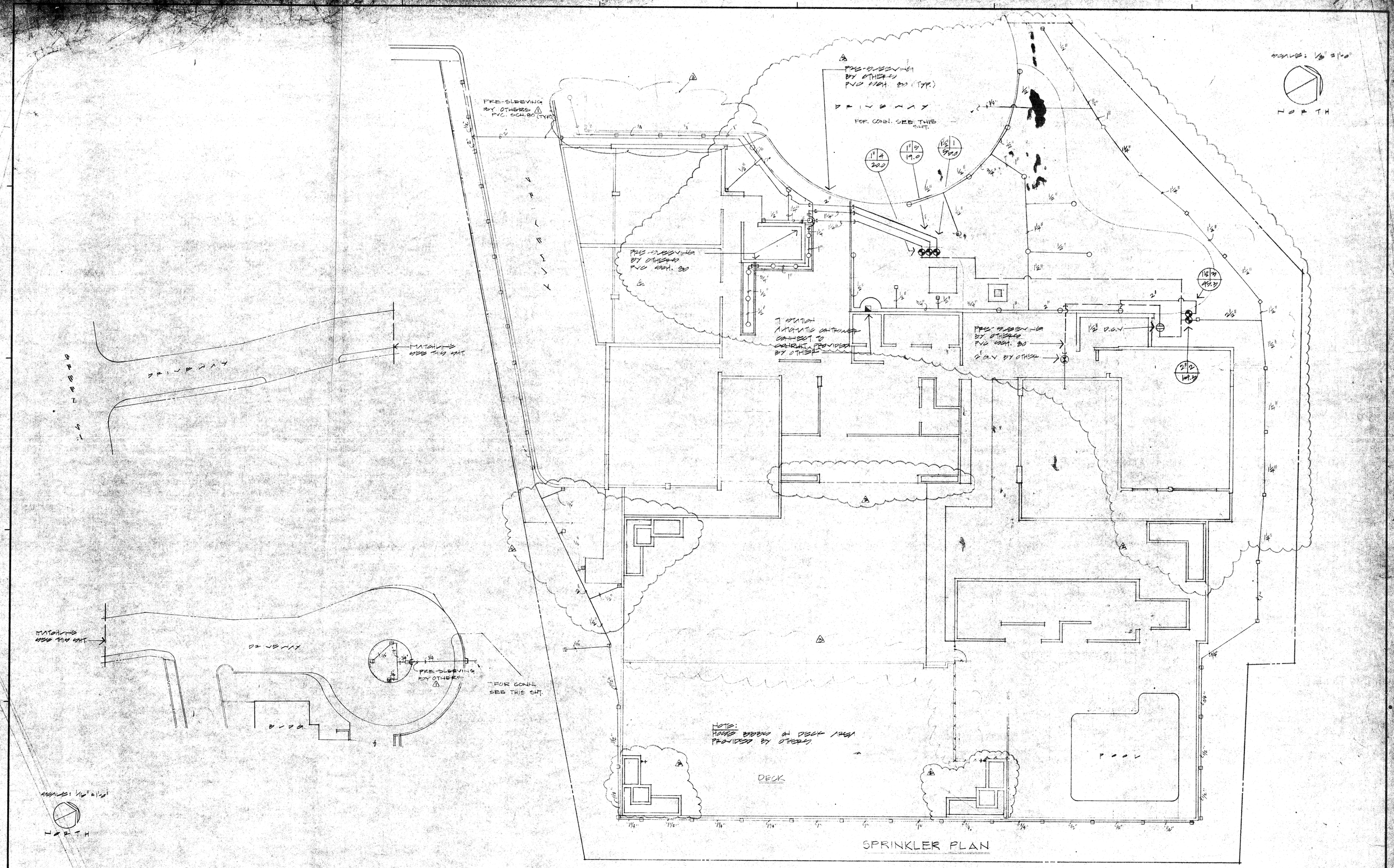
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 536-6947
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	PE
DRAWN BY	—
CHECKED BY	JSM
DATE	10-16-78
PROJECT NO.	3707-10

LANDSCAPE PLANTING PLAN

SHEET NO. L-1 OF



SPRINKLER PLAN

REVISIONS			
1	1-23-79	DESIGN CHANGES	F.E.
2	6-14-79	D.L.U. REQUEST & DESIGN CHG.	JM
3	6-22-79	D.L.U. REVISION	H.S.
REV.	DATE	DESCRIPTION	BY

MELVIN S. KURAOKA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 2768 H.W.A.I. U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII

WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

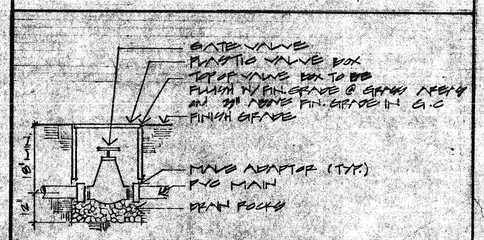
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

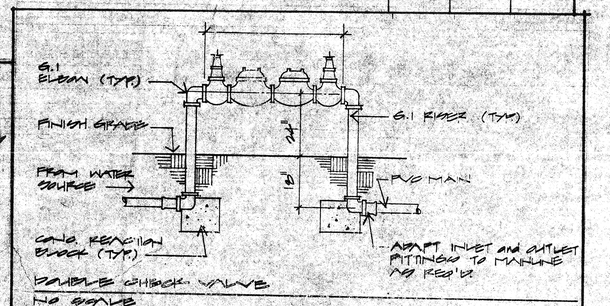
DESIGNED BY	FE
DRAWN BY	JMM
CHECKED BY	MSK
DATE	10-16-78
LANDSCAPE IRRIGATION PLAN	
PROJECT NO.	3707-10-3
SHEET NO.	L-2
OF	SHEETS

IRRIGATION EQUIPMENT LIST

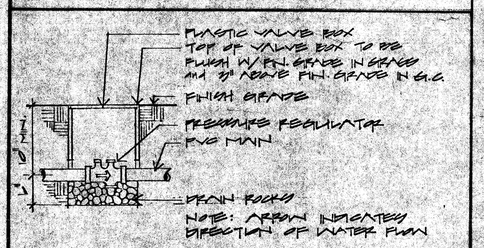
SYMB.	MANUF.	CATALOG NO.	DESCRIPTION	PSI	GPM	RADIUS
○ ⊖ ◷	RAINBIRD	171 SERIES	POP-UP LAWN SPRAY - ADJUST. - FULL CIRCLE " " " - HALF " " " - QTR.	30	2.8 1.4 .7	14'
□ ⊟ ⊞	RAINBIRD	2400 SERIES	SHRUB SPRAY - ADJUST. - FULL CIRCLE " " " - HALF " " " - QTR.	30	2.8 1.4 .7	14'
○	RAINBIRD	2700	FLOOD BUBBLER - ADJUST.	30	2.7	
⊕ ◉ ◪	RAINBIRD " " " "	DC-150 EFA SERIES RC-75	DOUBLE CHECK VALVE - SIZE AS NOTED ON PLAN REMOTE CONTROL VALVE. AUTOMATIC CONTROLLER 7 STA. WALL MT.			
12"			MAIN. MAIN - SCH 40 PVC " WATERAL - PVC CLASS 315 FOR 1½" AND CLASS 200 FOR 3/4" AND UNDER " MAIN OR WATERAL UNDER PAVEMENT -			
2" 4 / 60.0			STATION NO. SIZE OF REV GPM OF CIRCUIT			



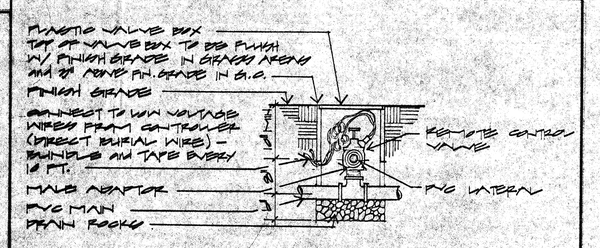
GATE VALVE
NO SCALE



DOUBLE CHECK VALVE
NO SCALE



PRESSURE REGULATOR
NO SCALE



REMOTE CONTROL VALVE
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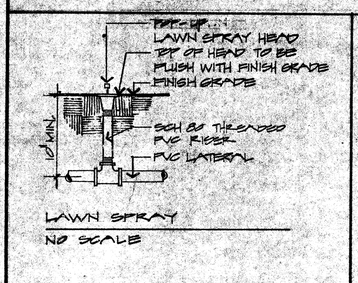
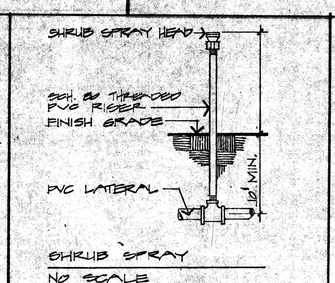


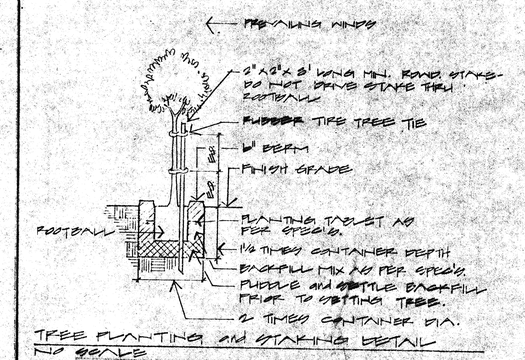
LAWN SPRAY
NO SCALE



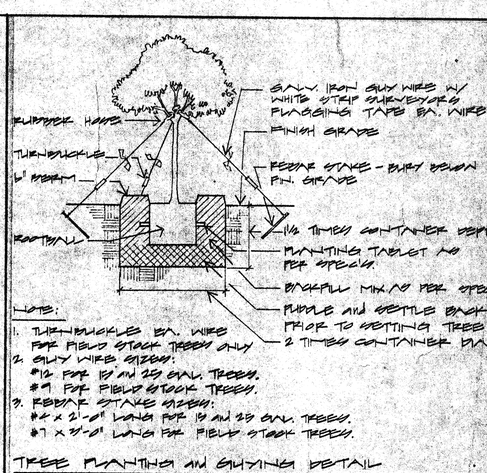
SHRUB SPRAY
NO SCALE

PLANT LIST AND MISCELLANEOUS

QUANT	BOTANICAL NAME	COMMON NAME	REMARKS
	TREES AND PALMS		
10	ROYSTONEA REGIA	ROYAL PALM	24 GAL. ; 4'-6' TRUNK HT.
5	RAVENEALA MADAGASCARIENSIS	TRAVELERS PALM	F.G. ; 7'-10' TRUNK HT.-MAIN STALK CLUMPING
7	PICUS RETUSA	CHINESE BANYAN	24"BOX. CONTAINER PER DECK ; 8'-10' HT. ; 3" CAL.
18	EUCALYPTUS MACULATA VAR. CITRIODORA	EUCALYPTUS	5 GAL. ; 3'-4' TRUNK HT. - 1" CAL.
1	SAMANEA SAMAN	MONKEY POD	25 GAL. 8'-10' TRUNK HT. - 2½" - 3" CAL.
	SHRUBS		
21	DRACAENA MARGINATA	DRACAENA	5 GAL. ; 3'-4' HT. ; 3 BRANCHES MIN.
8	VERA GOODING	VERA	5 " " ; " "
29	MANETERA DEWEVANA	MANETERA	2½ " ; 18" STALK MIN.
11	MUSA BASJOO/ENSIS	BANANA / APPLE	F. G. ; 3'-4' STALK HT. ; 6 HUMPING
~~6~~	~~CHAMAEROPS SP.~~	~~FAN PALM~~	~~5 GAL. ; 3'-4' STALK HT. ; 3 STALK MIN.~~
~~8~~	~~PHOENIX ROEBELENII~~	~~PYGMY DATE~~	~~5 " " ; " " ; " " ;~~
~~6~~	~~PSYCHOTRIA CAPHOSPERMOIDES~~	~~PSYCHOTRIA~~	~~2½ " ; 18" HT. ; 12" SPR.~~
~~36~~	~~STRELITZIA NICOLAI VAR. REGINAE~~	~~GIANT BIRD~~	~~" " ; " " ; " " ;~~
333	ALPINIA PURPURATA	RED GINGER	2½ " ; 24" HT. ; 3 STALK MIN. ; 30" O.C
100	CODIAEUM PICTURATUM VAR. CROTON	CROTON	" " ; 12" HT. @ 4'-0" O.C STAGGERED
20	SANSEVIERIA NARUMI VAR. BACULIFORMIS	SNAKE PLANT	2½ " ; 24" HT.
17	DRACAENA FRAGRANS	DRACAENA	5 GAL. ; 4' HT. ; 3 STALKS MIN.
	GROUNDCOVER		
~~51~~	~~ARACHIS DURANENSIS (SEED) VAR. REPENS (PLUG)~~	~~CREEPING PEANUT~~	~~1 GAL. ; 10" HT. ; @ 18" O.C~~
2710 SQ FT	LIRIOPE MUSCARI	LIRIOPE	ROOTED CUTTINGS ; @ 12" O.C
190	NEPHROLEPIS EXALTATA	WHITMANII FERN	1 GAL. ; @ 18" O.C
2379 SQ FT	POTHOS AUREUS	POTHOS	ROOTED CUTTINGS ; 12" VINE CUTTINGS MIN
~~900~~	~~PLECTRANTHUS HYBRIDUS~~	~~SWEDISH IVY~~	~~1 GAL. ; @ 18" O.C~~
2700	ZEPHYRANTHUS SP.	ZEPHYR LILY	DIVISIONS @ 6" O.C
110	ORNITHOGALUM UMBELLATUM	STARS GRASS	" " @ 4" O.C
91	ASPARAGUS SP. PLUMOSA	ASPARAGUS	1 GAL. @ 24" O.C
24 SQ FT	MYOPORUM PARVIFOLIUM	CREEPING MYOPO	ROOTED CUTTINGS @ 10" O.C
2790 SQ FT	EPIPREMNUM PINNATUM	HAHN GOLDEN	OFFSETS @ 4" O.C ; IN PLANTING (6" APART)
500 SQ FT	SODIA BACCATA	HAWAII BEACH NAU GRASS	
	MISCELLANEOUS		
2210 BF	1"X4" REDWOOD HDR.		
185 C.Y.	TOP SOIL		STOCK PILE ON JOBSITE - SEE SPECS AMENDMENT
39	PLANTERS FOR DECK		

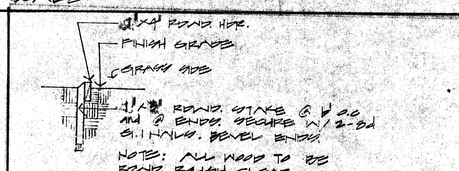


TREE PLANTING AND STAKING DETAIL
NO SCALE



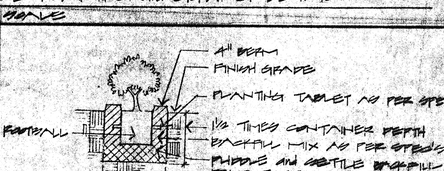
NOTE:
1. TURNBUCKLES BA. WIRE FOR FIELD STOCK TREES ONLY
2. GUY WIRE SIZES:
#12 FOR 15 AND 25 GAL. TREES.
#7 FOR FIELD STOCK TREES.
3. REBAR STAKE SIZES:
#4 x 2'-0" LONG FOR 15 AND 25 GAL. TREES.
#7 x 3'-0" LONG FOR FIELD STOCK TREES.

TREE PLANTING AND GUYING DETAIL
NO SCALE



NOTE: ALL WOOD TO BE REDWOOD, ROUGH CLEAR HEART GRADE.

REDWOOD HEADER DETAIL
NO SCALE



SHRUB DETAIL
NO SCALE

REVISIONS			
1	1-23-79	DESIGN CHANGES	F.E.
2	4-10-79	DLNR REQUEST	F.E.
3	6-22-79	DLNR REQUEST & DESIGN CHG.	JM
REV.	DATE	DESCRIPTION	BY

MELVIN S. KURAOKA — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — No. 2758 — HAWAII, U.S.A.

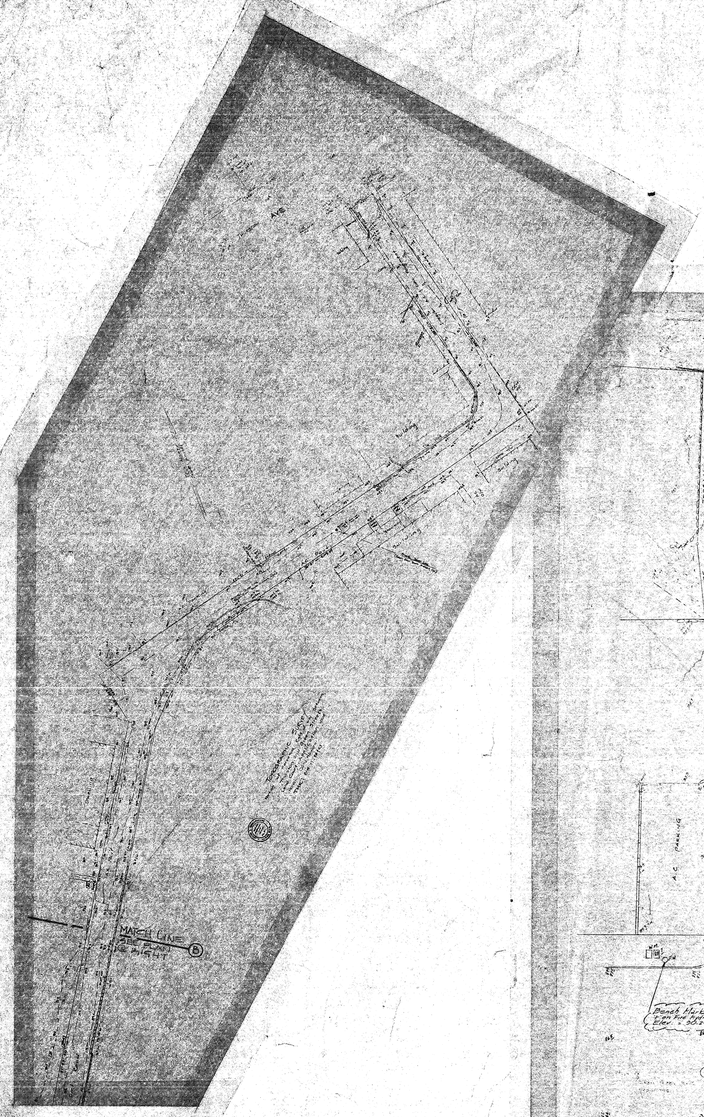
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

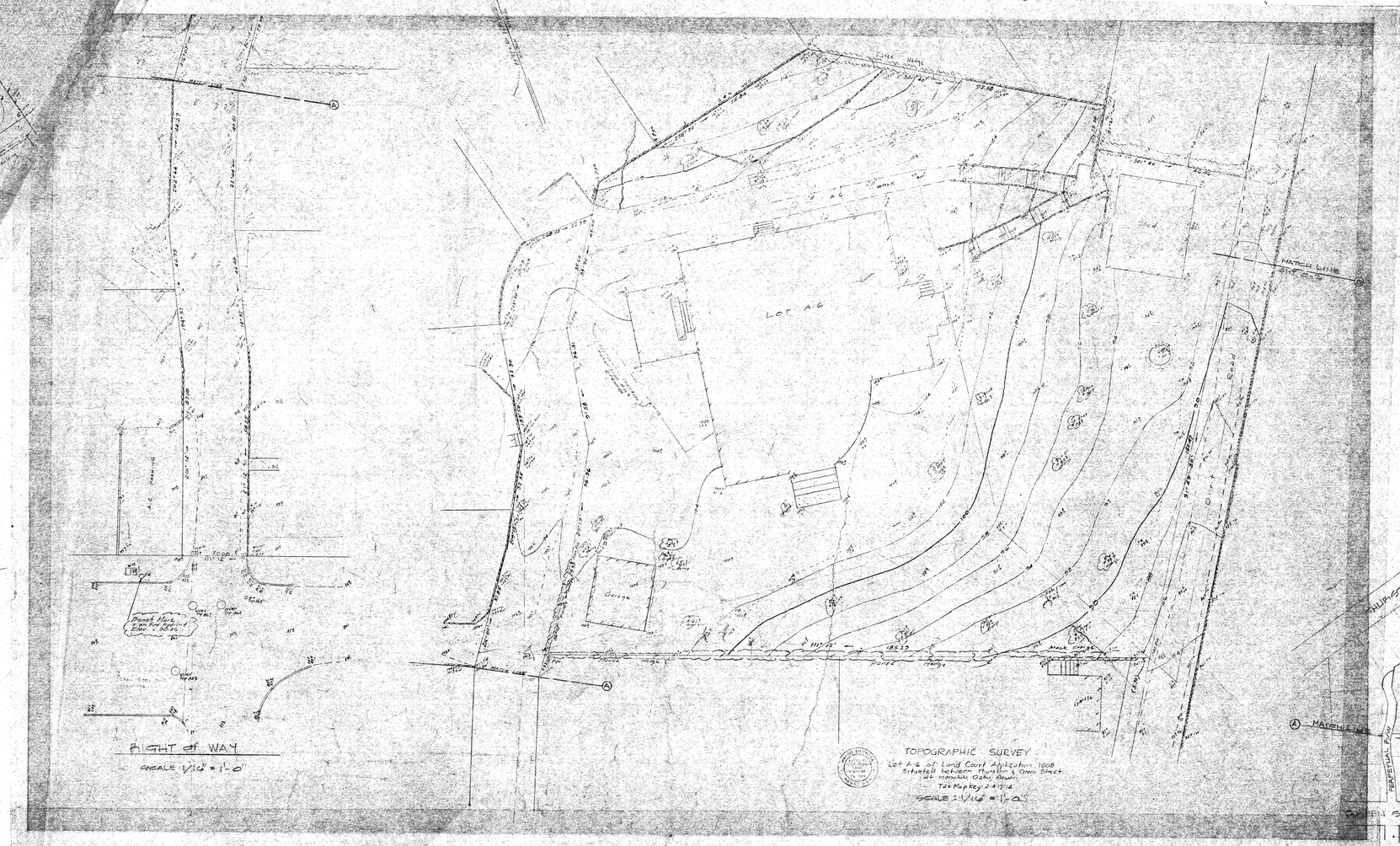
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

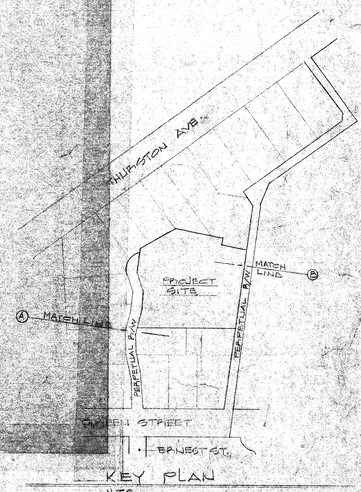
THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY F.E./F.E.	IRRIGATION EQUIPMENT AND PLANT LIST AND DET.
DRAWN BY J.K.H.	SHEET NO. L-3
CHECKED BY M.S.K.	
DATE 10-16-78	PROJECT NO. 3707-10-3
	OF SHEETS



RIGHT OF WAY
SCALE: 1/32" = 1'-0" SEE SHT. C-2





KEY PLAN
N.T.S.

TOWILL, SHIGEOKA & ASSOC. INC.
LAND SURVEYORS
850 RICHARDS ST.
HONOLULU, HAWAII
JOB NO. 910 FILE FLK 240

NOTE: 1/8 SCALE SURVEY AVAILABLE FROM D.M.J.M. UPON REQUEST

REVISIONS			
REV.	DATE	DESCRIPTION	BY

HARUO SHIGEOKA
REGISTERED PROFESSIONAL LAND SURVEYOR
No. 2279
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING ♦ ARCHITECTURE ♦ ENGINEERING ♦ SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	10-10-73

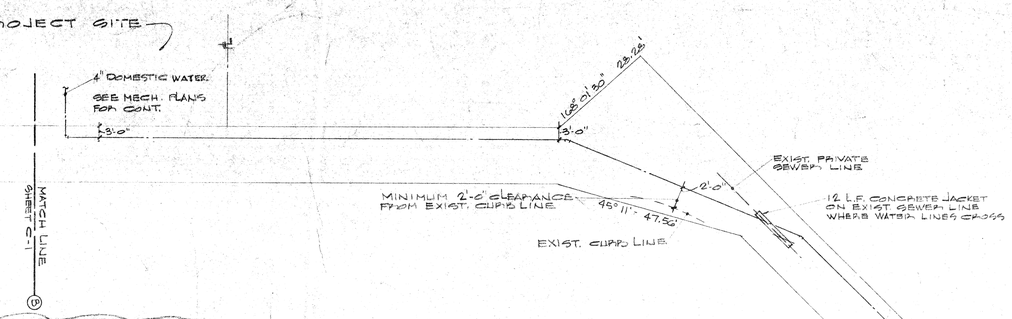
TOPOGRAPHIC SURVEY

SHEET NO. C-1

PROJECT NO. 3737-10-3

OF 1 SHEETS

PROJECT SITE



DOMESTIC & FIRE WATER SERVICE PLAN

SCALE: 1/16" = 1'-0"

Note:
1. Contractor to verify location, size, and elevation of existing underground lines affecting new work before start of construction. Data shown for existing lines are taken from record plans but other underground lines may exist which are not shown on these plans. Contractor shall proceed with caution during excavation and shall be responsible for protecting lines and maintaining service.
2. Installation of water line in the private right-of-way shall conform to U.P.C., State and Local Codes and requirements of the Board of Water Supply.
3. Contractor to maintain minimum depth from existing grade to invert of new water services (both domestic and fire sprinkler) will be 3' in the private right-of-way.
4. at all bends concrete thrust blocks will be constructed in accordance with accepted practices.

WATER NOTES FOR INSTALLATION OF SERVICE LATERALS WITH METERS 3 INCHES AND LARGER

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the Honolulu Board of Water Supply's WATER SYSTEM STANDARDS dated March 1977, and all subsequent amendments and additions. Nuts and bolts for flanged connections shall be bronze or stainless steel except at coupling adaptors where "Cor-ten" (U.S. Steel) or "Mayari" (Bethlehem Steel) may be used.
2. Lines and grades to include stakeout, fittings, concrete reaction blocks, etc., of the new lateral shall not be the responsibility of the Board of Water Supply.
3. Unless otherwise specified, connections to existing water mains shall be done by the contractor, with the BWS inspector coordinating the work. For details, contract BWS Planning and Engineering Division, Engineering Branch Construction Section.
4. All meter boxes and valve boxes/manholes including frames and covers shall be furnished, installed and paid for by contractor.
5. Test pressure shall be prevailing line pressure, joints left exposed for 24 hours to check for leaks prior to backfill.
6. The contractor shall chlorinate the entire inside surface of each pipe and fitting with disinfection solution of 5 ounces of sodium hypochlorite mixed with 10 gallons of water.
7. The contractor shall provide three sets of approved plans and pay the applicable water development and/or one-time service charge and for the meter which will be furnished by BWS and installed by the contractor when the lateral is installed.
8. The contractor shall notify BWS Planning and Engineering Division, Construction Section, one week prior to commencing work on the lateral.
9. The contractor shall secure all required utility clearances and obtain excavation permit.
10. Where a policeman's service is determined to be required for traffic control, the contractor shall arrange and pay for such service.
11. In the event that pipes other than ductile iron are to be used, the plans shall be resubmitted for approval.
12. Contractor shall pick up meter at BWS storeroom deliver to job site and install; BWS inspector shall arrange for pick up.
13. Valve I.D. tags shall be affixed on the underside of all new manholes and valve box covers. See details.
14. The contractor shall be responsible for the meter from the time of pick up to the time the project is accepted by BWS. All water used through the meter shall be paid for by the contractor.
15. Distance from meter dial to bottom of meter box cover shall be a minimum of 6 inches and a maximum of 12 inches.
16. Contractor shall cut all existing unused laterals at main whether or not shown on plans.

*17. Maximum depth for dimension "G" on Figure 29 of the Standard Details shall be 4'-4½". OMIT

18. Contractor shall furnish and install additional fittings if necessary to meet field conditions.

*19. After installation of tapping sleeve and valve, the assembly shall be tested with prevailing line pressure prior to actual tapping operations.

20. All cast iron (gray or ductile) water pipes, fittings, and valves shall be enclosed in plastic material in accordance with ANSI Specifications A 21.5-1972 or AWWA Specifications C 105-72 Polyethylene encasement for gray and ductile cast iron piping for water and other liquids.

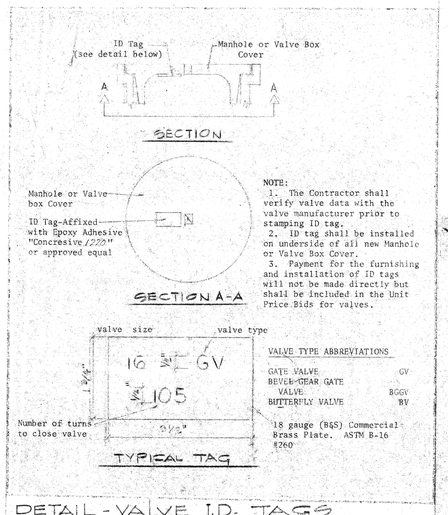
21. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply.

22. For meters 3" and larger (compound and detector check), contractor shall notify Customer Service Division in writing, no later than 120 days, prior to withdrawing meter from BWS Storeyard. Such notice shall indicate the number, size, and type of meter (compound or detector check) and approximate month and year meter is anticipated to be drawn out.

23. Reapproval shall be required if this project is not under construction within a period of one year. (See Rules and Regulations of the Board of Water Supply).

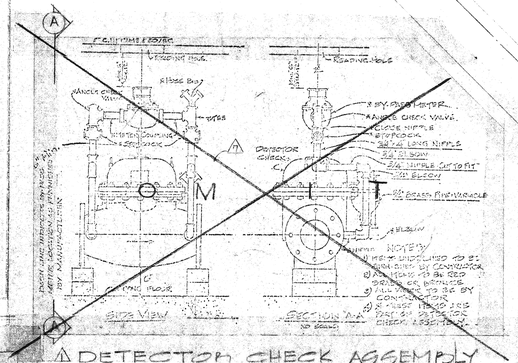
24. Board of Water Supply approval of these plans does not constitute a water commitment. Water commitment will be made when building permit application is presented to the Department's Customer Service Division.

*If applicable.

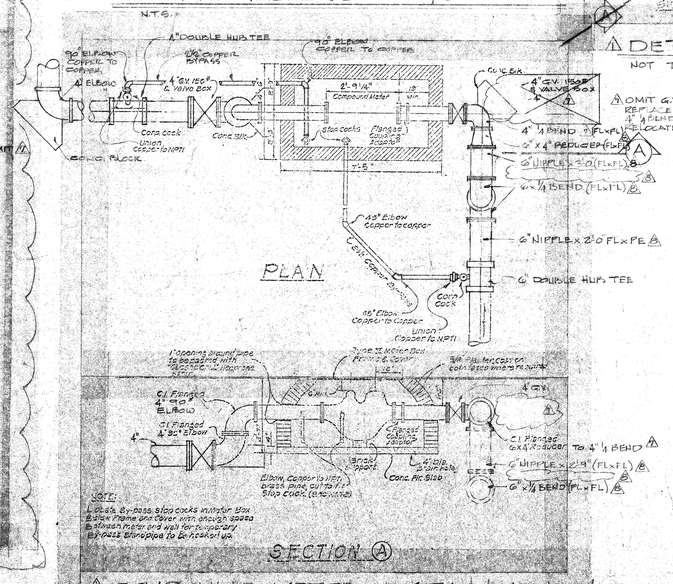


DETAIL - VALVE I.D. TAGS

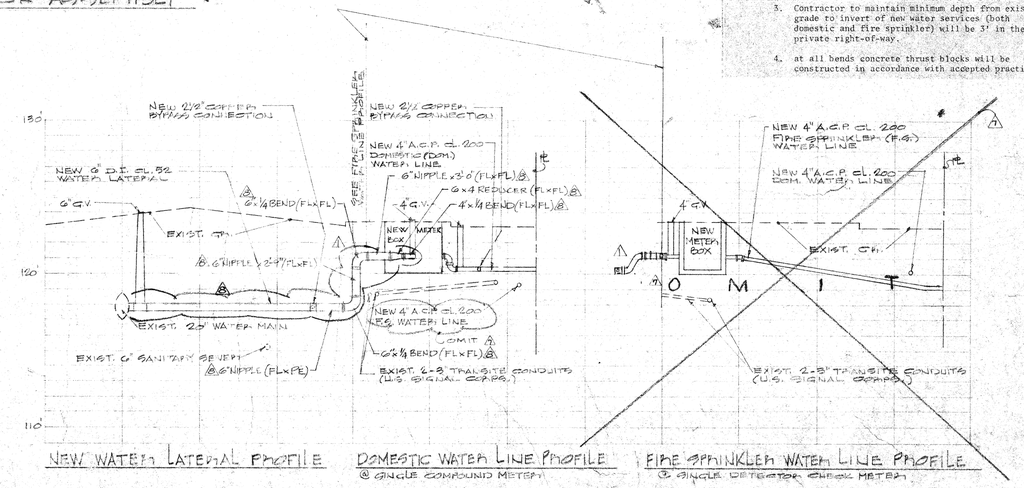
NTS



NOT TO SCALE



NOT TO SCALE



NEW WATER LATERAL PROFILE

DOMESTIC WATER LINE PROFILE
@ SINGLE COMPOUND METER

FIRE SPRINKLER WATER LINE PROFILE
@ SINGLE DETECTOR CHECK METER

NEW WATER SERVICE CONNECTION PROFILES

HORIZ. SCALE: 1" = 8'-0"
VERT. SCALE: 1" = 4'-0"

REAPPROVAL: Mitchell D. Imamura DATE: 3/16/81
CHIEF, PLANNING & ENGINEERING B.W.S.

APPROVED: Mitchell D. Imamura DATE: 11-4-80
CHIEF, PLANNING & ENGINEERING B.W.S.

REV.	DATE	DESCRIPTION	BY	APPVD BY	DATE
		REVISIONS			
⚠ REV 9/11/80					
3	3/16/81	REVISE WATER LATERAL PROFILE	HGS	[illegible]	3/16/81
2	5-15-80	REAPPROVAL OF BWS	KW		
1	1-18-79	PLDG. DEPT CORRECTIONS	KS		

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1813 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

Jack C. Lipman

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

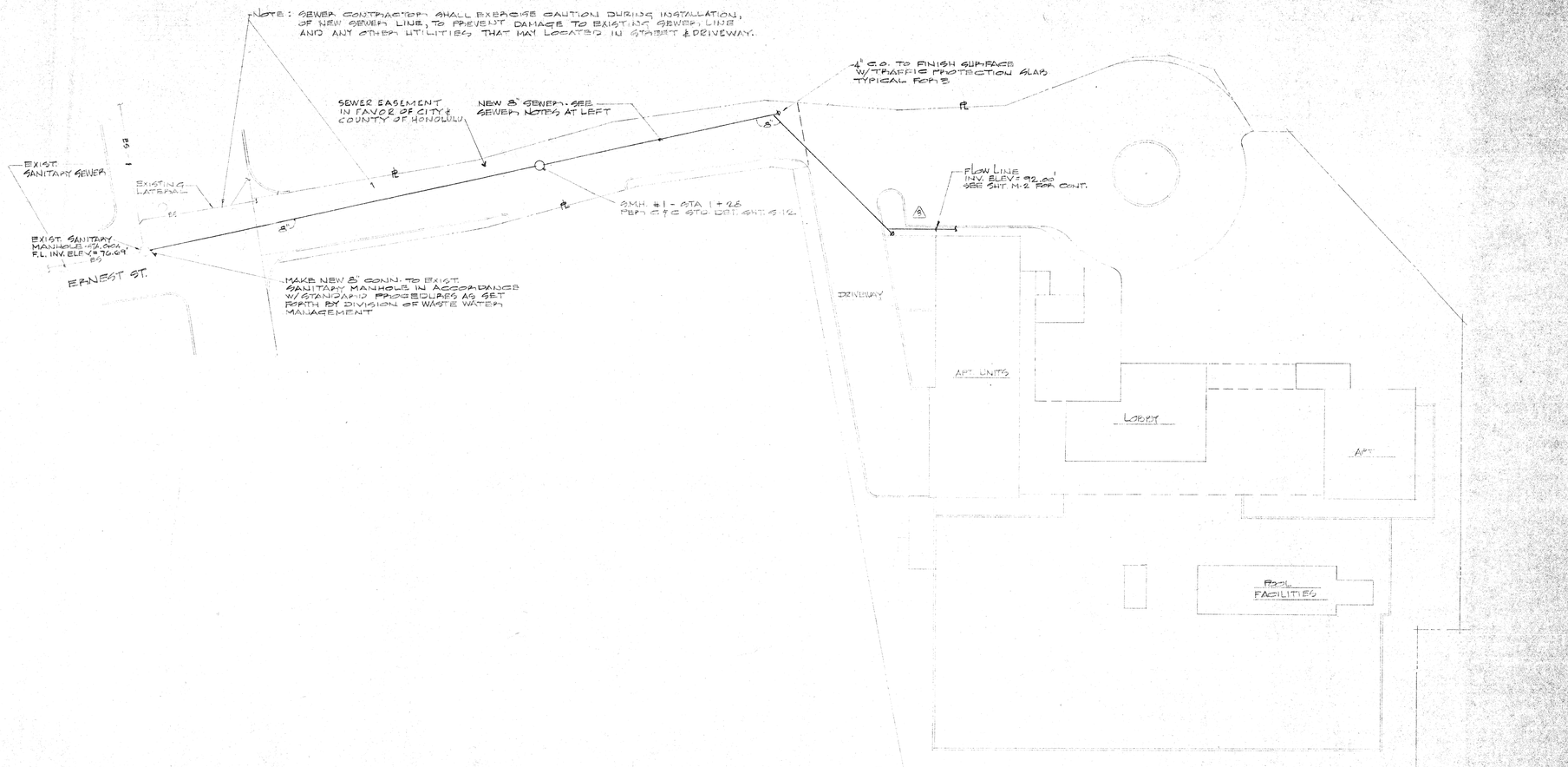
DESIGNED BY	DOMESTIC & FIRE WATER SERVICE PLANS
DRAWN BY	SHEET NO. C-2
CHECKED BY	
DATE 10-16-78	PROJECT NO. 8107-10-3
	OF SHEETS

SEWER NOTES

1. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY AND COUNTY STANDARD SPECIFICATIONS APPROVED BY THE CHIEF ENGINEER IN MAY 1975 AND THE LATEST DIVISION OF WASTEWATER MANAGEMENT'S STANDARD DETAILS, AUGUST 1976, AS REVISED, AND THE REVISED ORDINANCES OF HONOLULU, 1969.
2. IN EVENT THAT ANY CHANGES IN ALIGNMENT OR GRADE FOR THE PROPOSED SEWERS ARE REQUIRED DUE TO UNFORESEEN CONFLICT WITH OTHER UNDERGROUND UTILITIES, THE SUBDIVISION ENGINEER SHALL BE RESPONSIBLE FOR THE REQUIRED CHANGES WHICH ARE TO BE PRESENTED TO THE DIVISION OF WASTEWATER MANAGEMENT FOR APPROVAL.
3. MINIMUM SLOPE FOR ALL SEWER LATERALS SHALL BE ONE (1) PERCENT.
4. THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WASTEWATER MANAGEMENT SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF SEWER WORK AND SUBMIT THREE (3) SETS OF APPROVED CONSTRUCTION PLANS.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION AND INVERT OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN.
6. CRUSHED ROCK CRADLE IS PERMITTED WHERE THE SOIL IS STABLE. IN AREAS OF UNSTABLE SOIL, THE MAKER OF THE PLANS AND THE CONSTRUCTION ENGINEER WILL DISCUSS AND DETERMINE THE PIPE SUPPORT REQUIRED.
7. SEWER LATERALS SHALL BE LOCATED A MINIMUM OF 5'-6" FROM THE PROPERTY LINE WHERE NO TRANSFORMER PAD SITUATES AND A MINIMUM OF 11'-6" WHERE THERE IS A PAD.
8. TOP OF SEWER MANHOLES IN EASEMENT SHALL BE FOUR INCHES ABOVE EXISTING GROUND UNLESS OTHERWISE INDICATED BY THE ENGINEER.
9. TREES IN THE ROAD R/W SHALL BE SITUATED AT A MINIMUM OF 6.0' FROM THE CITY'S SEWER PIPES.
10. SEWER LATERAL INVERT SHALL CONTROL THE PLUMBING FACILITIES.
11. Sewer connection may be denied depending on action taken by EPA or DOH for non-compliance by the City of the National Pollutant Discharge Elimination System (NPDES) permit requirements.

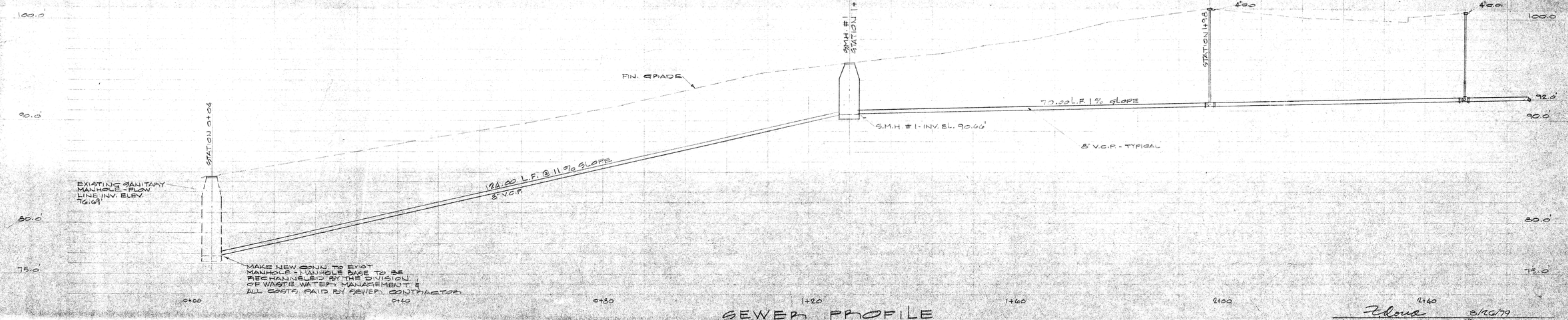
    See special notice to applicant for sewer connection which is available at the Public Service Section (first floor), Division of Sewers.
12. SEWER CONTRACTOR SHALL NOTIFY THE DEPT. OF WASTE WATER MANAGEMENT 7 DAYS PRIOR TO COMMENCING SEWER INSTALLATION.

NOTE: SEWER CONTRACTOR SHALL EXERCISE CAUTION DURING INSTALLATION OF NEW SEWER LINE, TO PREVENT DAMAGE TO EXISTING SEWER LINE AND ANY OTHER UTILITIES THAT MAY LOCATED IN STREET & DRIVEWAY.



SITE SEWER PLAN

SCALE: 1/16" = 1'-0"



SEWER PROFILE

SCALE: HOR. 1" = 8'-0" — VERT.: 1" = 4'-0"

Edoua 8/20/79
DEPT. OF PUBLIC WORKS OR CHIEF WASTE WATER MANAGEMENT DIVISION

TAX MAP KEY 2.4.17:14

REVISIONS			
1	3-26-79	DPW COMMENTS	KS
2	6-22-79	D.L.U. REVISIONS	KS
REV.	DATE	DESCRIPTION	BY

ROBERT W. KEMP REGISTERED PROFESSIONAL ARCHITECT No. 4629 HAWAII, U.S.A.

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DMJM

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PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

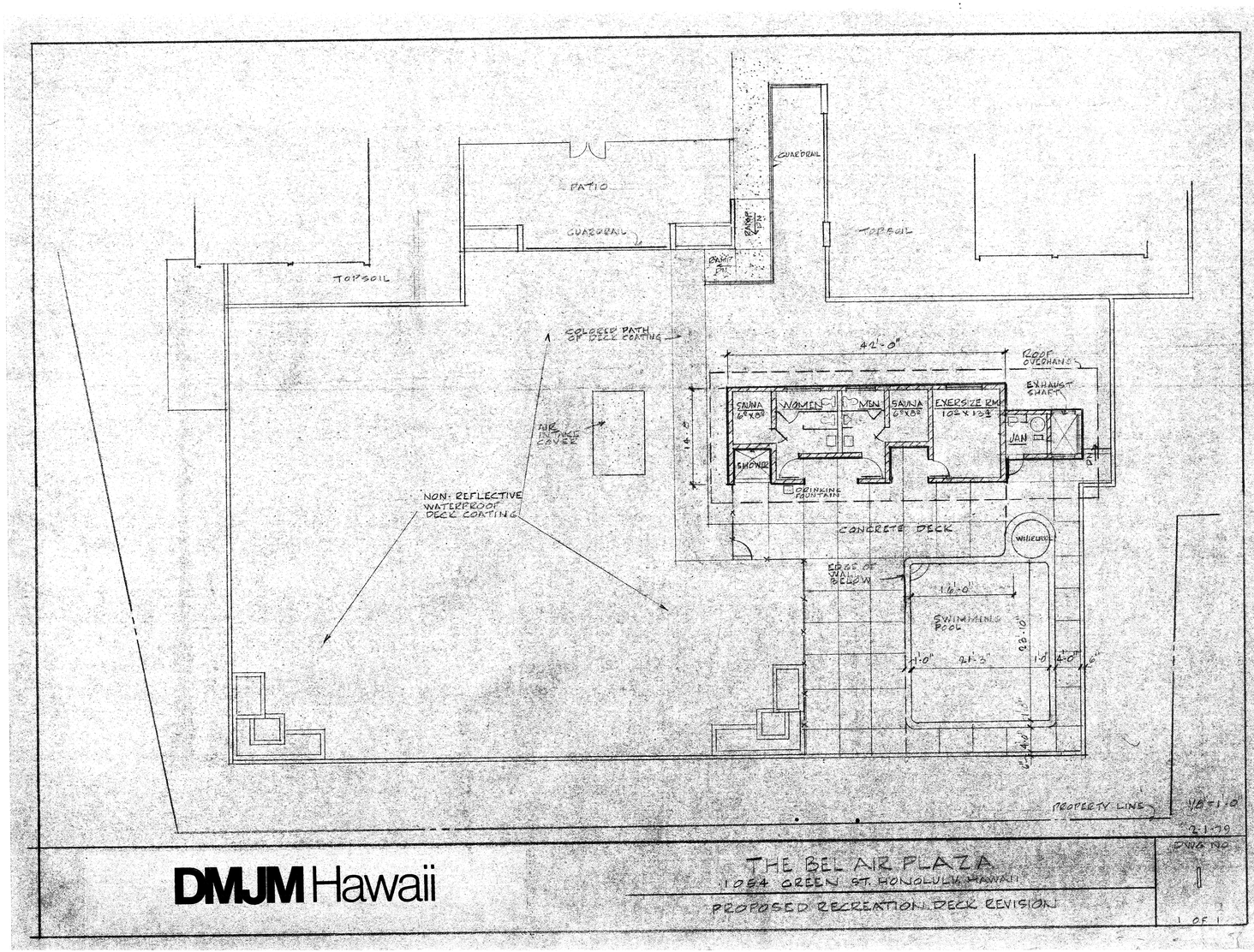
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY KO	
CHECKED BY	
DATE	
PROJECT NO. 3707-10-3	

SEWER PLAN & PROFILE

SHEET NO. C-3 OF SHEETS



DMJM Hawaii

THE BEL AIR PLAZA
1064 GREEN ST. HONOLULU, HAWAII
PROPOSED RECREATION DECK REVISION

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L-3 IRRIGATION EQUIPMENT AND PLANT LIST

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CZC TABULATION

Ordinance 78-73

Zoning lot exclusive of Right-Of-Ways:
32,154 Sq. Ft. X 1.5 Far = 48,231 Sq. Ft. allowable

Ordinance 4488 (Draft 6)

Maximum height limit 75'-0" above existing ground elevation.

First Floor	6233
Second Floor	6233
Third Floor	6233
Fourth Floor	6233
Fifth Floor	6233
Sixth Floor	6233
Seventh Floor	6233
Eighth Floor	3747
Pool Bldg.	609
	47987 Sq. Ft.

Parking Required			cars
B	12-2 bedroom	754 sq. ft. units =	15
B-1	4-2 bedroom	806 sq. ft. units =	6
A	36-1 bedroom	580 sq. ft. units =	36
A-1	4-1 bedroom	524 sq. ft. units =	4
	56 Units		61 Required

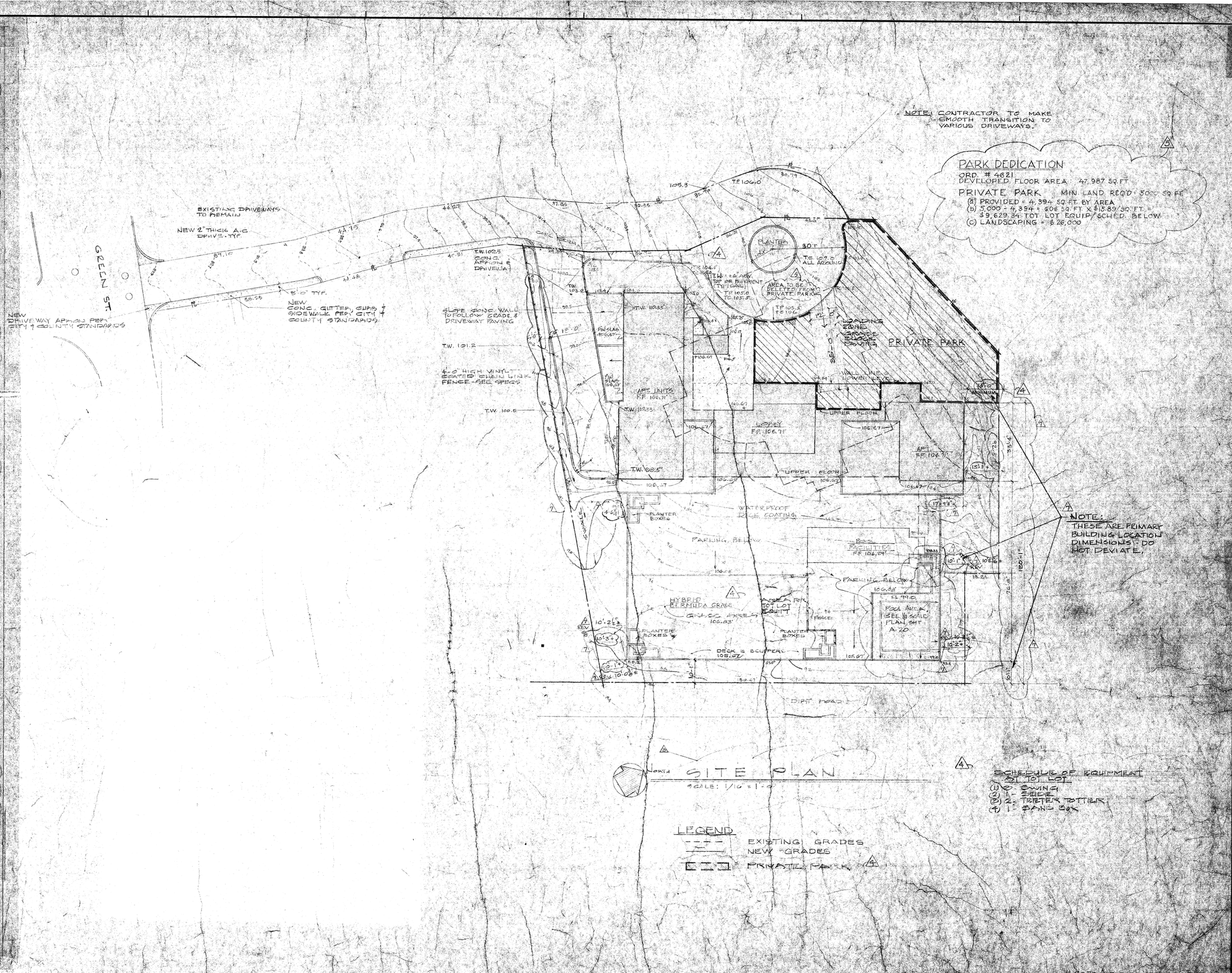
Parking Provided

59 Cars covered
2 Cars on grade
61

TAX MAP KEY: 2-4-17:14

ZONING A-3

BUILDING OCCUPANCY
APARTMENTS R-1
PARKING B-1



REVISIONS			
REV.	DATE	DESCRIPTION	BY
3	11-27-78		KS
4	6-22-79	DLU REVISIONS	TJK
5	7-11-79	ELEV. REVD	BAS

REV	8/6/80	REV. BLDG. LOC. DIMS.	HGS
6	7/15/80	CORRECT PROP. LINES & BLDG. LOC.	HGS
7	6/3/80	PARK DEDICATION REV.	ABP

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JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT NO. 1912 HAWAII, U.S.A.

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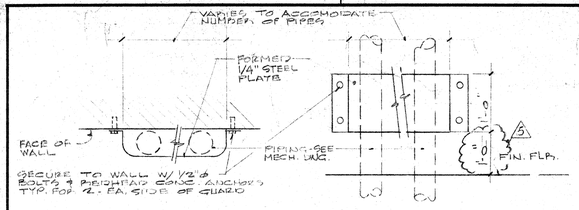
PLANNING ◊ ARCHITECTURE ◊ ENGINEERING ◊ SYSTEMS

THE BEL AIR PLAZA

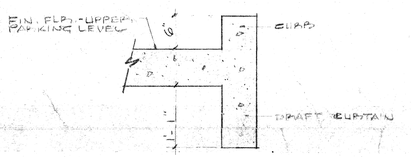
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	11-20-78
PROJECT NO.	7107
SHEET TITLE	SITE PLAN
SHEET NO.	A-1
OF	SHEETS



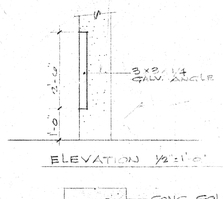
4 / A-2 PIPE GUARD

SCALE: N.T.S.



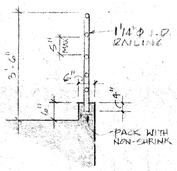
A 3 / A-2 DRAFT CURTAIN

SCALE: 1"=1'-0"



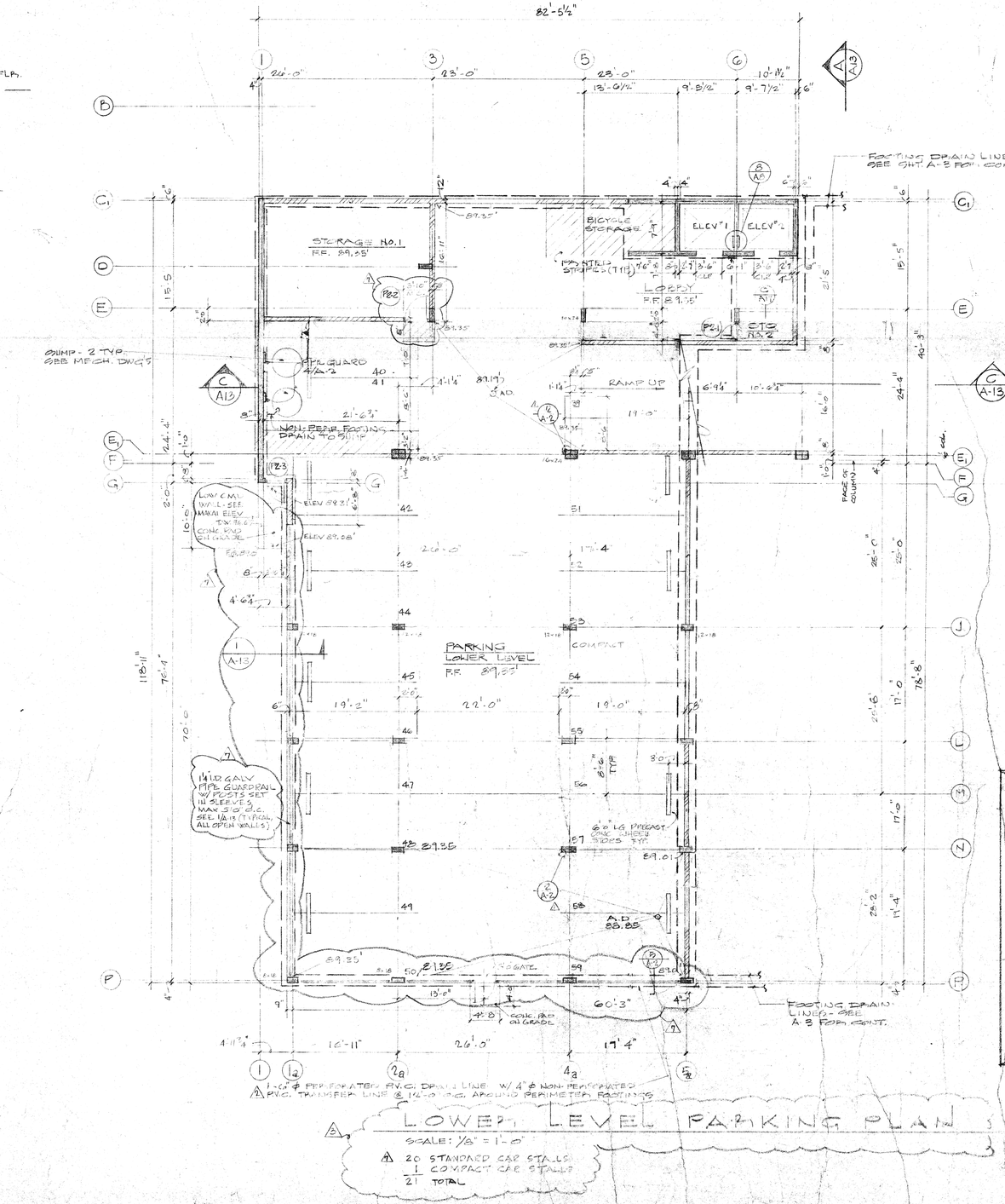
A 2 / A-2 COLUMN GUARD

SCALE: AS NOTED



1 / A-2 GUARDRAIL

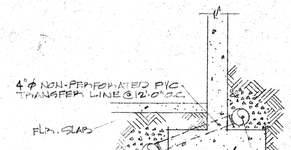
1 1/2" = 1'-0"



LOWER LEVEL PARKING PLAN

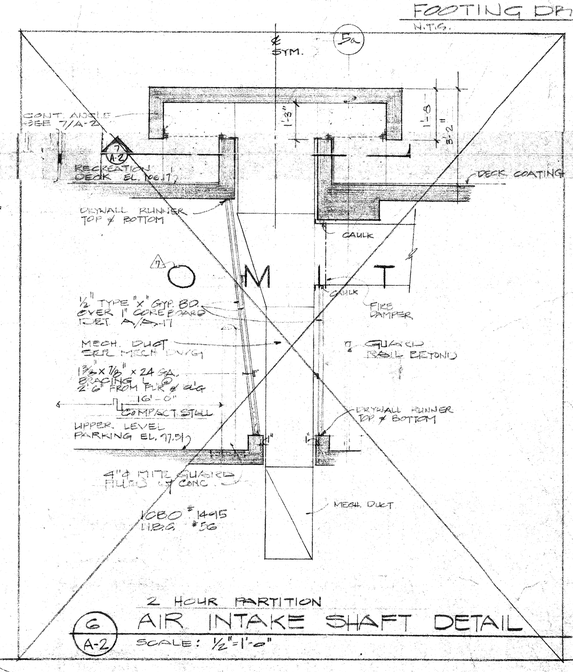
SCALE: 1/8" = 1'-0"

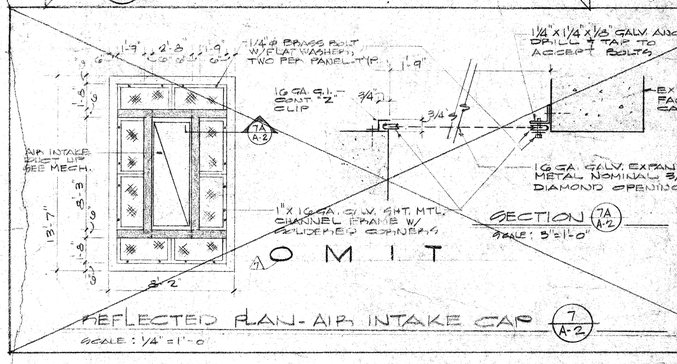
20 STANDARD CAR STALLS
1 COMPACT CAR STALLS
21 TOTAL



FOOTING DRAIN 4 / A-2

N.T.S.





North

REVISIONS							
5	6-22-78	DLW REVISIONS	TK				
4	11-27-78		KS				
3	11-20-78	BLDG DEPT. COMMENTS	KS	3	7/5/80	OPEN PARKING WALLS	HKS
REV.	DATE	DESCRIPTION	BY	5	8-24-78	BLDG. DEPT. COMMENTS / ADDED DIM. @ DET. 4/A-2	KH

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1815 HAWAII, U.S.A.

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DMJM

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WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

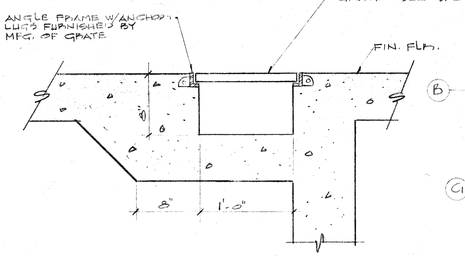
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY	K.S. KEN
CHECKED BY	
DATE	9-16-78
PROJECT NO.	2704-1078

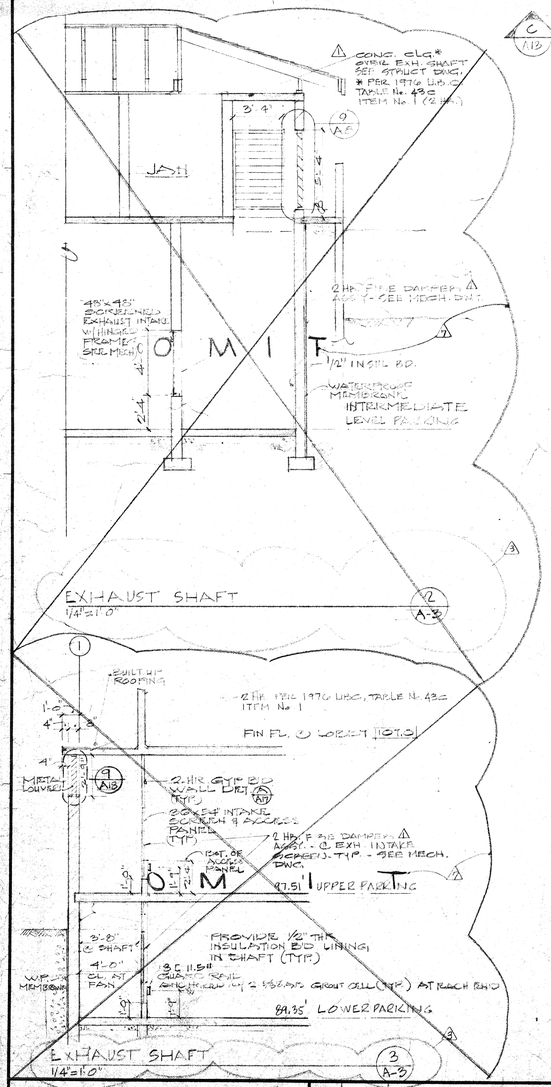
LOWER LEVEL PARKING PLAN

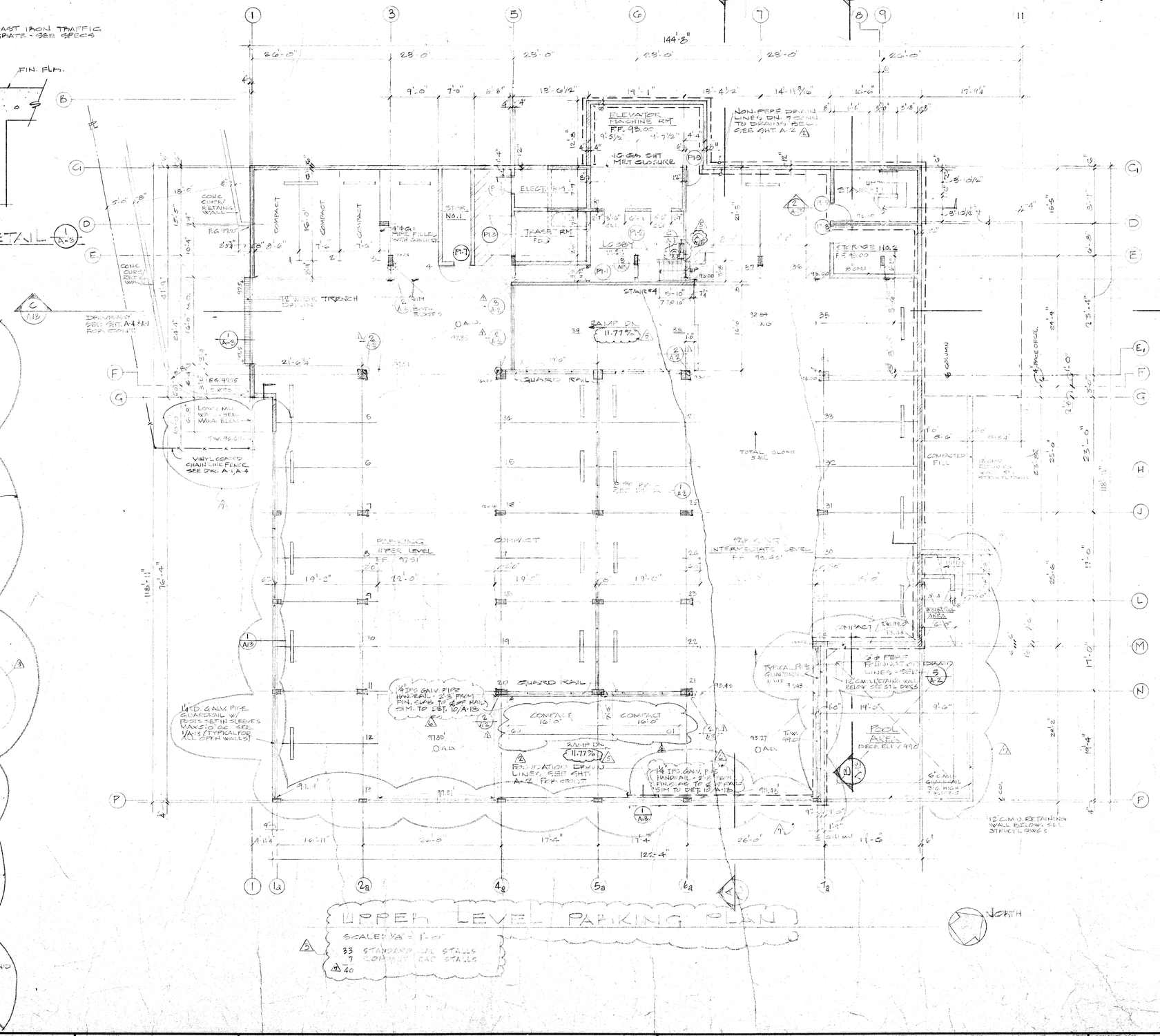
SHEET NO. A-2 OF SHEETS



TRENCH DRAIN DETAIL 1/A-3

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




144'-8"
ELEVATOR MACHINE RM. FF. 93.00
NON-PERF. DRAIN LINES ON TOPPING SEE SHT A-2
10 GA. SHT MET. ENCLOSURE
ELEC. RM.
STAIR
STAIR NO. 1
INTAKE RM. FD.
LOBBY
STAIR #4
CONC. CURB & RETAINING WALL
COMPACT
4" SG1 SIPE FILLED WITH CONCRETE
12" FOOTING
DRIVEWAY SEE SHT. A-4 FOR GRADING
LOW C.M.U. W/6" SEIS. MALA ELEC.
VINYL COATED CHAIN LINK FENCE SEE DWG. A-1, A-4
F.G. 97.15
RAMP DN. 11.77%
GUARD RAIL
TOTAL SLOPE 5.3%
COMPACTED FILL
12" CONC. RETAINING WALL W/ ATTACH. FENCE
PARKING UPPER LEVEL F.F. 97.51
COMPACT
INTERMEDIATE LEVEL F.F. 93.65
4" P.V.C. VENT
TYP. FIRE EXTINGUISHER CABINET
2" Ø PIPE HANDRAIL (SEE DWG. FOR LOCATION)
12" C.M.U. RETAINING WALL BELOW SEE STRUCT. DWG'S
POOL AREA DECK ELEV. 99.2
6" C.M.U. GUARDWALL TO MATCH EXIST.
1/4" I.P.S. GALV. PIPE HANDRAIL - 2'-6" FROM FIN. FLRS. TO W/ RAIL SIM. TO DET. 10/A-15
1/4" I.P.S. GALV. PIPE HANDRAIL - 2'-6" FROM FIN. FLRS. TO W/ RAIL SIM. TO DET. 10/A-15
1/4" T.D. GALV. PIPE GUARDRAIL W/ POSTS SET IN SLEEVES WELDED OR SEL. 1/4"S (TYPICAL FOR ALL OPEN WALLS)
42" P.V.C. VENT
COMPACT 16'-0"
RAMP DN. 11.77%
PENETRATION EPOXIED LINES, SEE SHT A-2 FOR DETAIL
O.A.D.
T.W. 99.0
T.W. 96.67
T.W. 99.2
T.W. 98.48
T.W. 98.27
T.W. 97.48
T.W. 97.35
T.W. 97.15
T.W. 96.67
T.W. 96.48
T.W. 96.27
T.W. 96.15
T.W. 96.02
T.W. 95.81
T.W. 95.69
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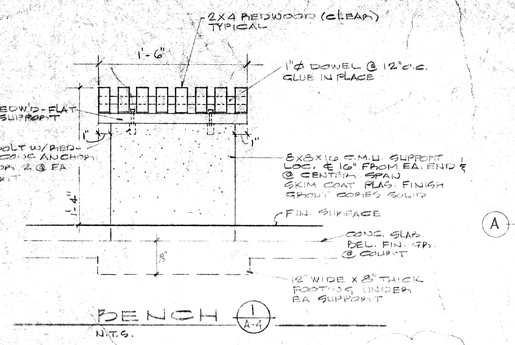
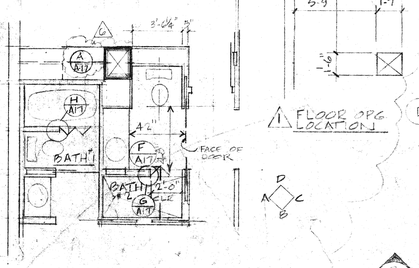
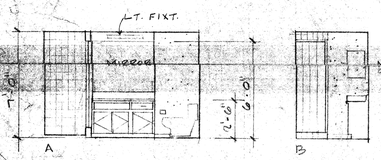
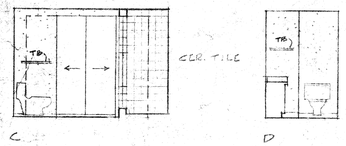




1 BATH #1 & #2 PLANS @ UNIT B & B2 2 A4
1/4"=1'-0"

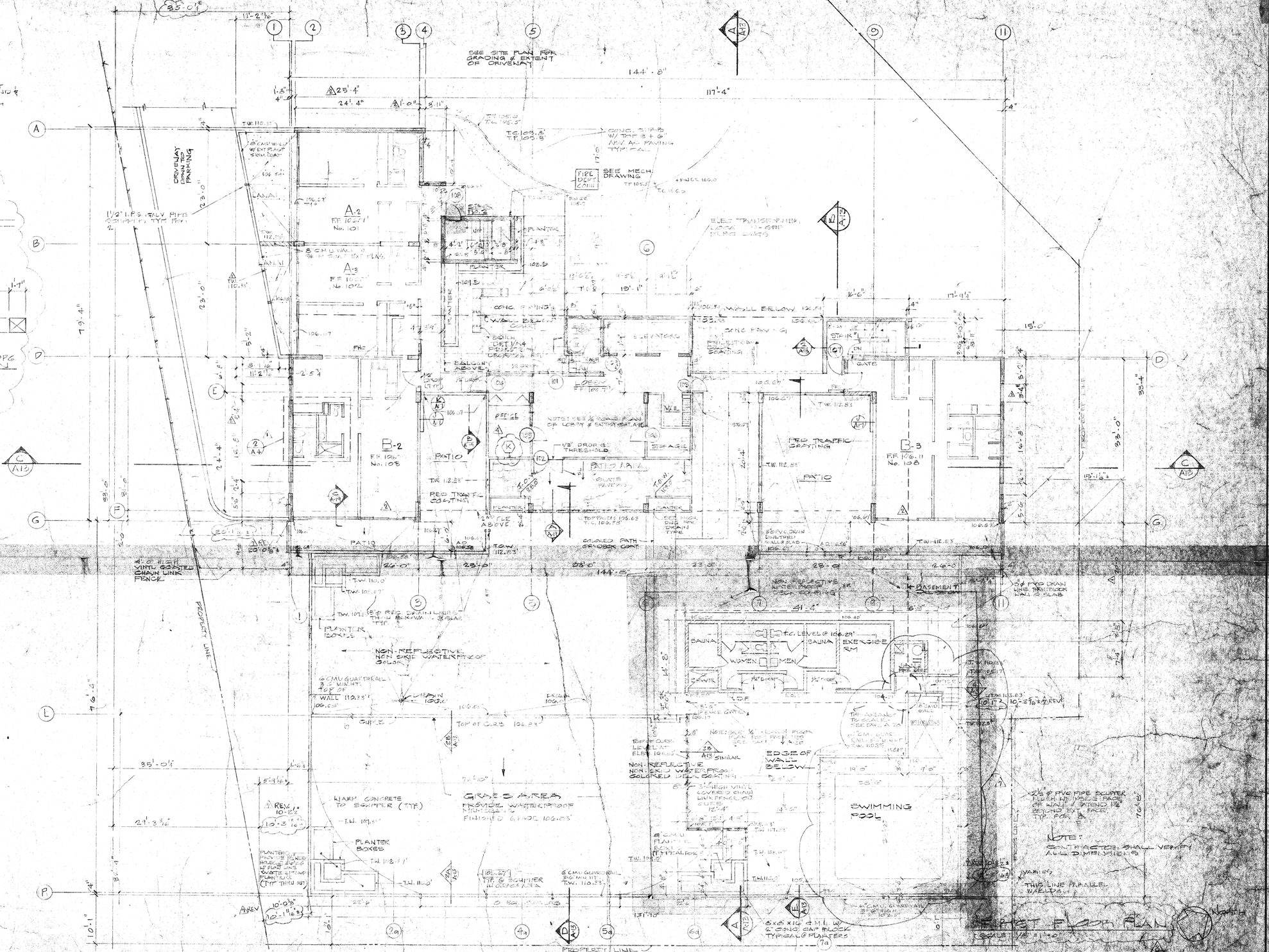
SEE SHEET 14A FOR DIMENSIONS & NOTES





UNIT B & B2 BATH #2 1
1/4"=1'-0"

HANDICAPPED TOILET REQMENTS @ UNITS 103 THRU 803



REVISIONS									
REV.	DATE	DESCRIPTION	BY:	REV	DATE	DESCRIPTION	BY:
4	11-29-79	BLDG DEPT CORRECTIONS	KS	7	8/6/80	REV. BLDG LOC. DIMS	HGS
3	11-20-79		KS	6	7/15/80	OPEN PARKING WALLS REVISE POOL AREA	HGS
2	11-20-79	BLDG DEPT CORRECTIONS	KS	5	9-12-79	BLDG. DEPT. COMMENTS	KN
1	6-22-79	BLU REVISION	KS	4		BLDG. DEPT. COMMENTS	KS
				3	6-22-79	BLU REVISION	KS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

JACK C. LINAHAN REGISTERED PROFESSIONAL ARCHITECT NO. 1935 HAWAII, U.S.A.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

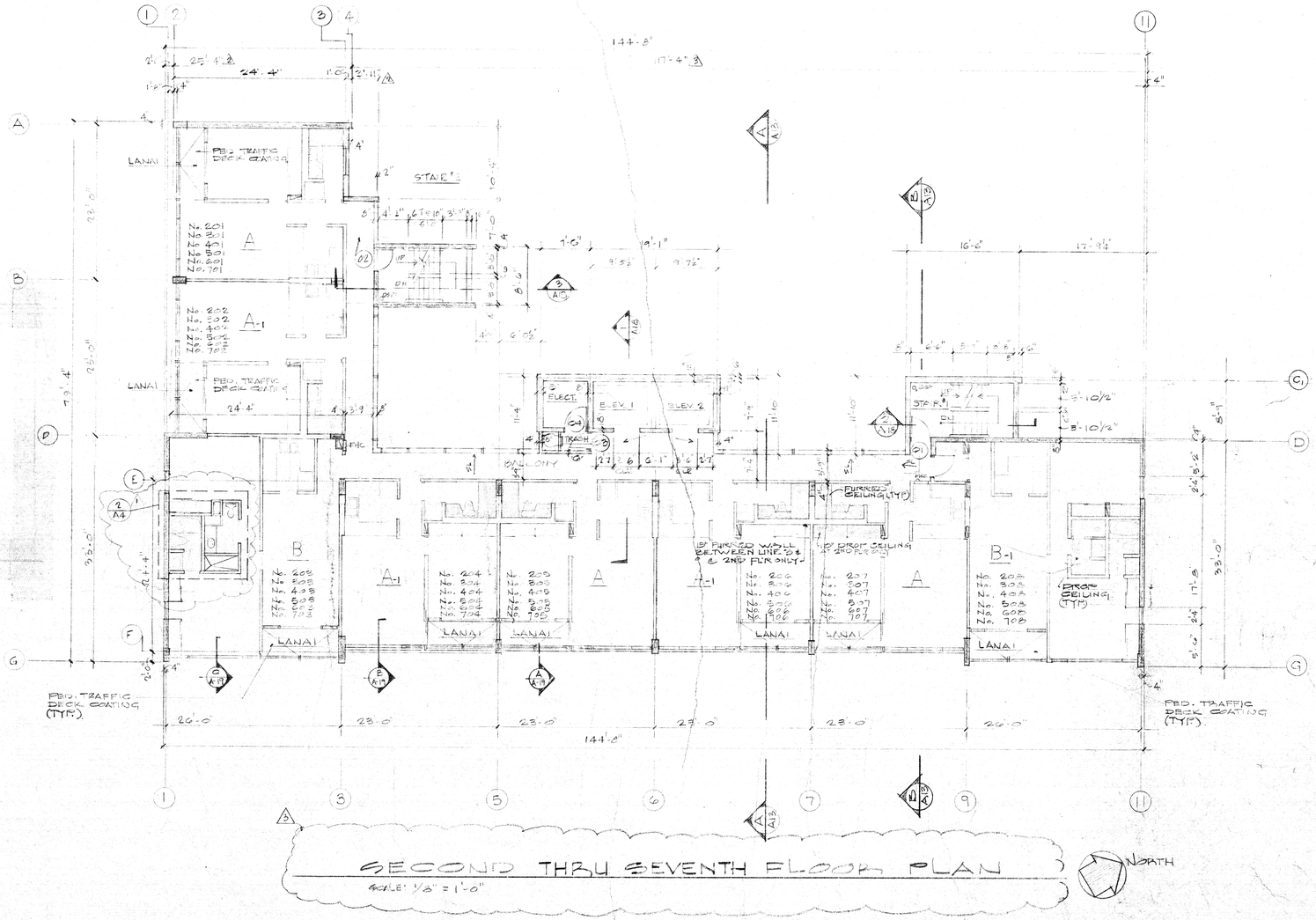
DESIGNED BY
DRAWN BY K.K.
CHECKED BY
DATE 5-8-79

1ST FLOOR PLAN

PROJECT NO. 78

SHEET NO. A1.2

OF SHEETS



SECOND THRU SEVENTH FLOOR PLAN

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

NORTH

REVISIONS			
REV.	DATE	DESCRIPTION	BY
3	6-22-79	DDU REVISION	AA
2	12-18-78	BLDG. DEPT. CORRECTIONS	KW
1	11-21-78		KS
1	11-20-78	BUDA DEPT CORRECTIONS	KS

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1815 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

Jack C. Lipman

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII

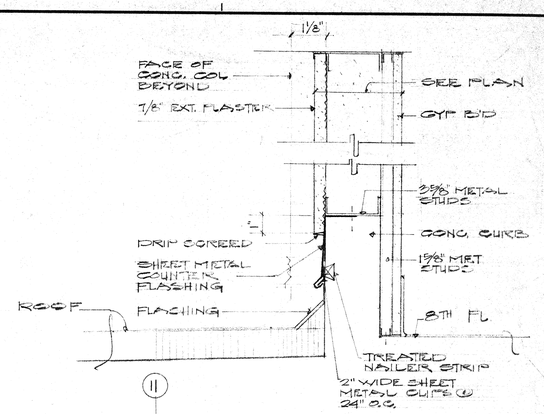
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

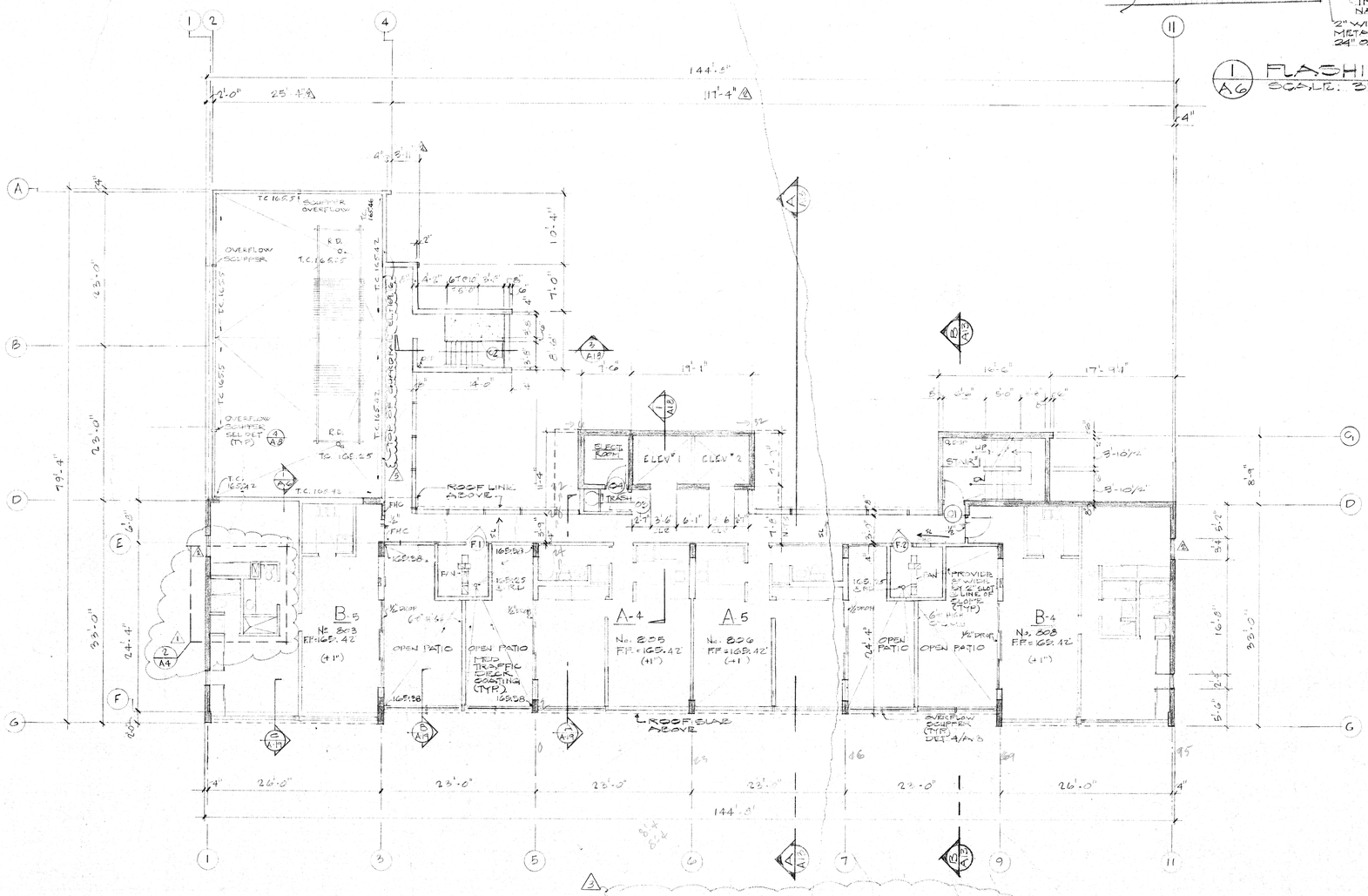
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	2ND THRU 7TH FLOOR PLAN
DRAWN BY KS	
CHECKED BY	
DATE 10-16-78	SHEET NO. A-5
PROJECT NO. 3727-B-3	OF 20 SHEETS



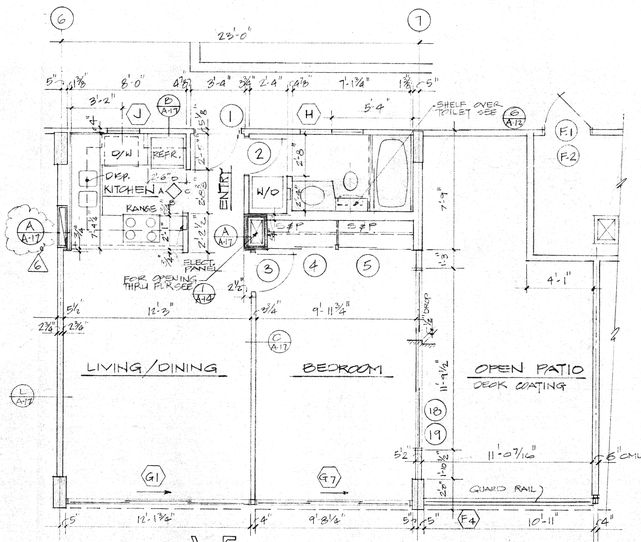
1 / A6 FLASHING DET
SCALE: 3" = 1'-0"



3 EIGHTH FLOOR PLAN
SCALE: ⅛" = 1'-0"

NORTH

NOTE: REF EL @ EIGHTH FLOOR = 165.33'
+1" @ EIGHTH FLOOR = 165.42'



TYPE A-5 FLOOR PLAN
SCALE: ¼" = 1'-0"

TYPE A-6 FLOOR PLAN (OPPOSITE HAND)

REVISIONS			
1	12-18-78	B.DG. DEPT. CORRECTIONS	KW
2	11-27-78		KW
3	11-20-78	BLDG. DEPT. CORRECTIONS	KW
REV.	DATE	DESCRIPTION	BY
4	9-17-79	BLDG. DEPT. COMMENTS	KH
5	8-24-79	BLDG. DEPT. COMMENTS-ADDED GUARDRAIL EL.@ COL. LINE 4	KH
	8-7-79	ADDED A-5 & A-4 - ½" PLR. PLAN	KH
6	6-22-79	DLU REVISIONS	TK

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1815 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

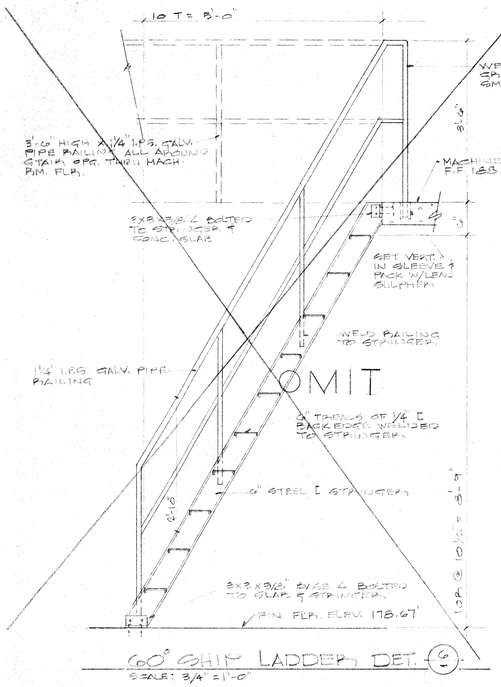
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY	K.S.
CHECKED BY	
DATE	10-16-78
PROJECT NO.	5707-10-3

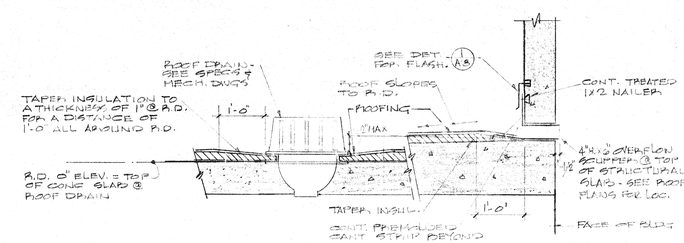
8TH FLOOR PLAN

SHEET NO. A-6 OF 28 SHEETS



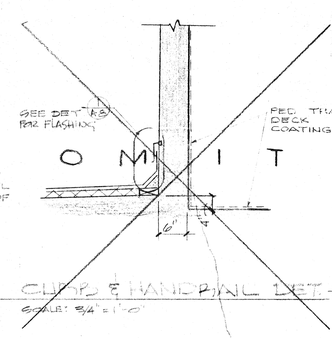
60° CHIN LADDER, DET. 6/A-8

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



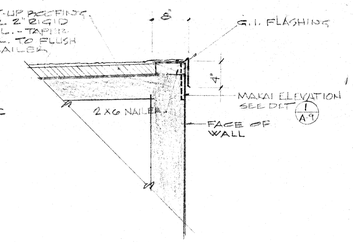
OVERFLOW SCUPPER DET. 4/A-8

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



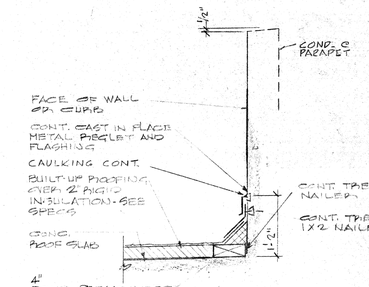
CURB & HANDRAIL DET. 8/A-8

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



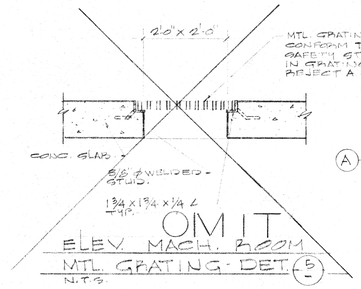
FLASHING DET. 2/A-8

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



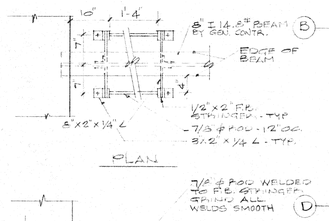
FLASHING DET. 1/A-8

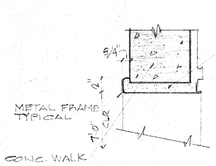
SCALE: 3/4" = 1'-0"

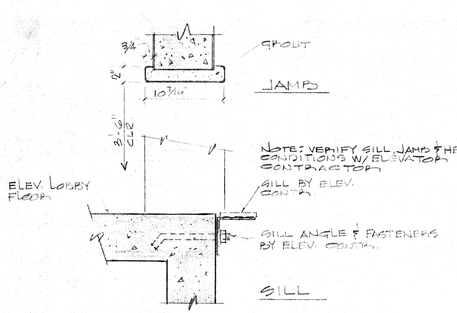


MTL. GRATING DET. 5/A-8

N.T.S.

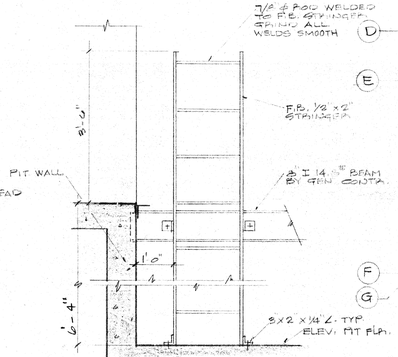






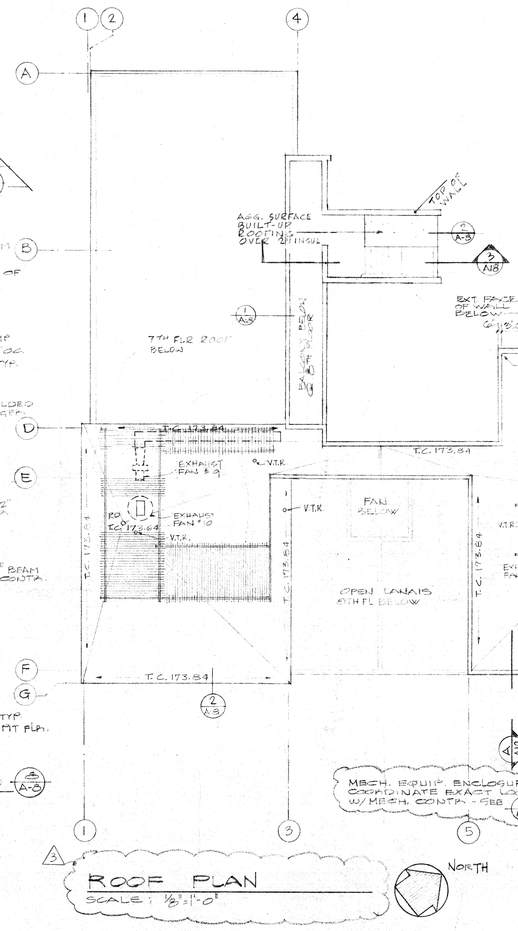
ELEVATOR ENTRANCE 7/A-8

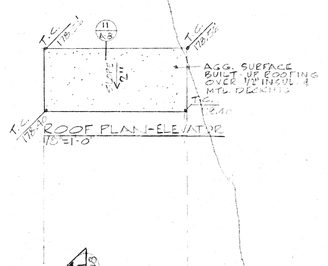
SCALE: 1½" = 1'-0"

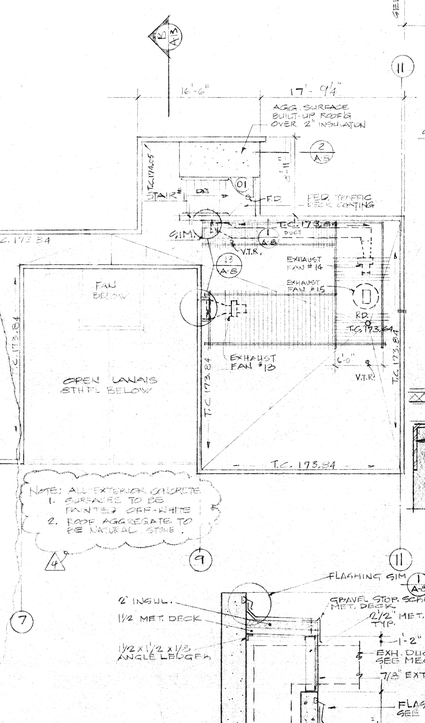


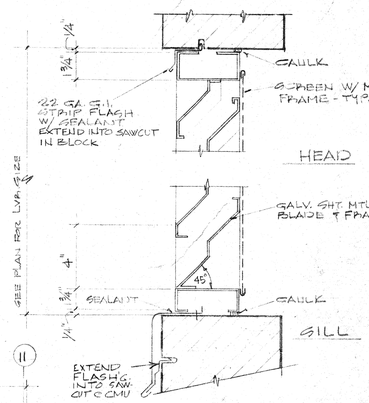
ELEV. LADDER & GUARD 4/A-8

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



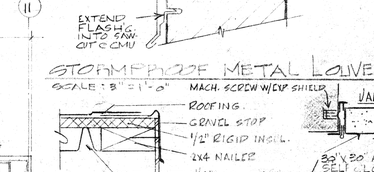


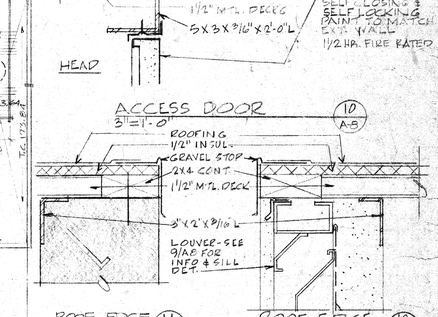


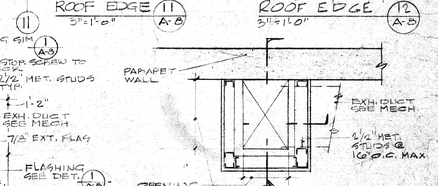


STORMPROOF METAL LOUVER 9/A-8

SCALE: 3" = 1'-0" MACH. SCREW W/ EXT. SHIELD







DUCT THRU ROOF 13/A-8

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

REVISIONS			
4	8-15-79	D.L.J. COMMENTS	KH
3	6-22-79	D.L.J. REVISIONS	TK
1	11-20-78	BLDG. DEPT. CORRECTIONS	KL
REV.	DATE	DESCRIPTION	BY

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1815 HAWAII, U.S.A.

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Jack C. Lipman

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII

WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY

DRAWN BY K.W. K.S.

CHECKED BY

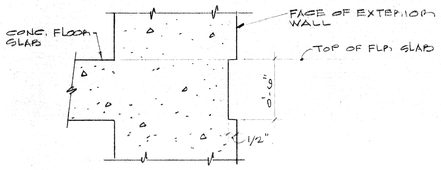
DATE 12-10-78

ROOF PLAN

PROJECT NO. 5107-10-8

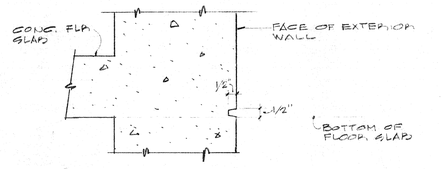
SHEET NO. A-8

OF 20 SHEETS



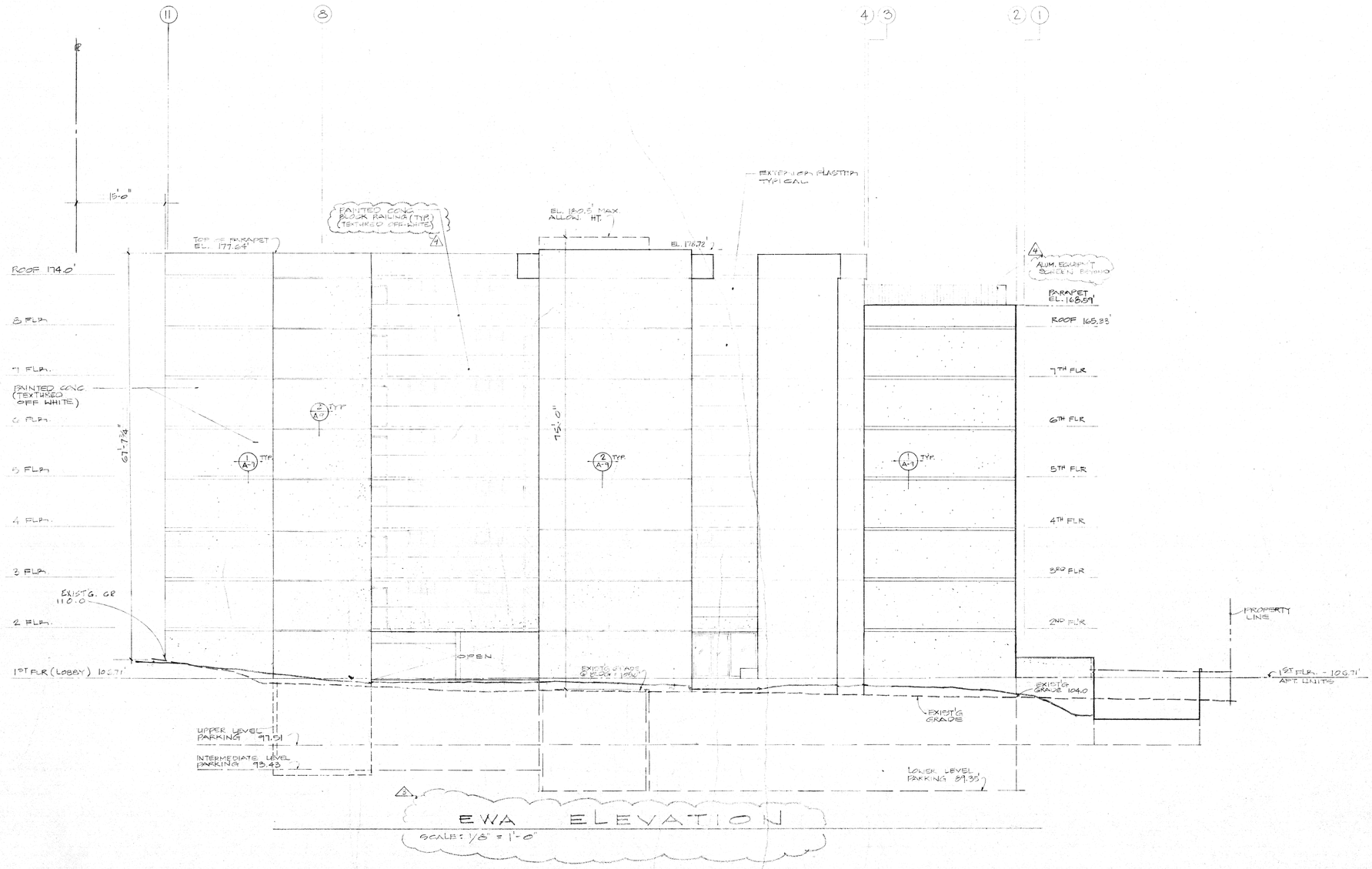
DETAIL 1/A-9

NOT TO SCALE



DETAIL 2/A-9

NOT TO SCALE



EWA ELEVATION

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

REVISIONS			
4	8-15-79	D.L.U. COMMENTS	KH
3	6-22-79	D.L.U. REVISIONS	TK
1	11-20-78	BLDG. DEPT. CORRECTIONS	KS
REV.	DATE	DESCRIPTION	BY

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WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

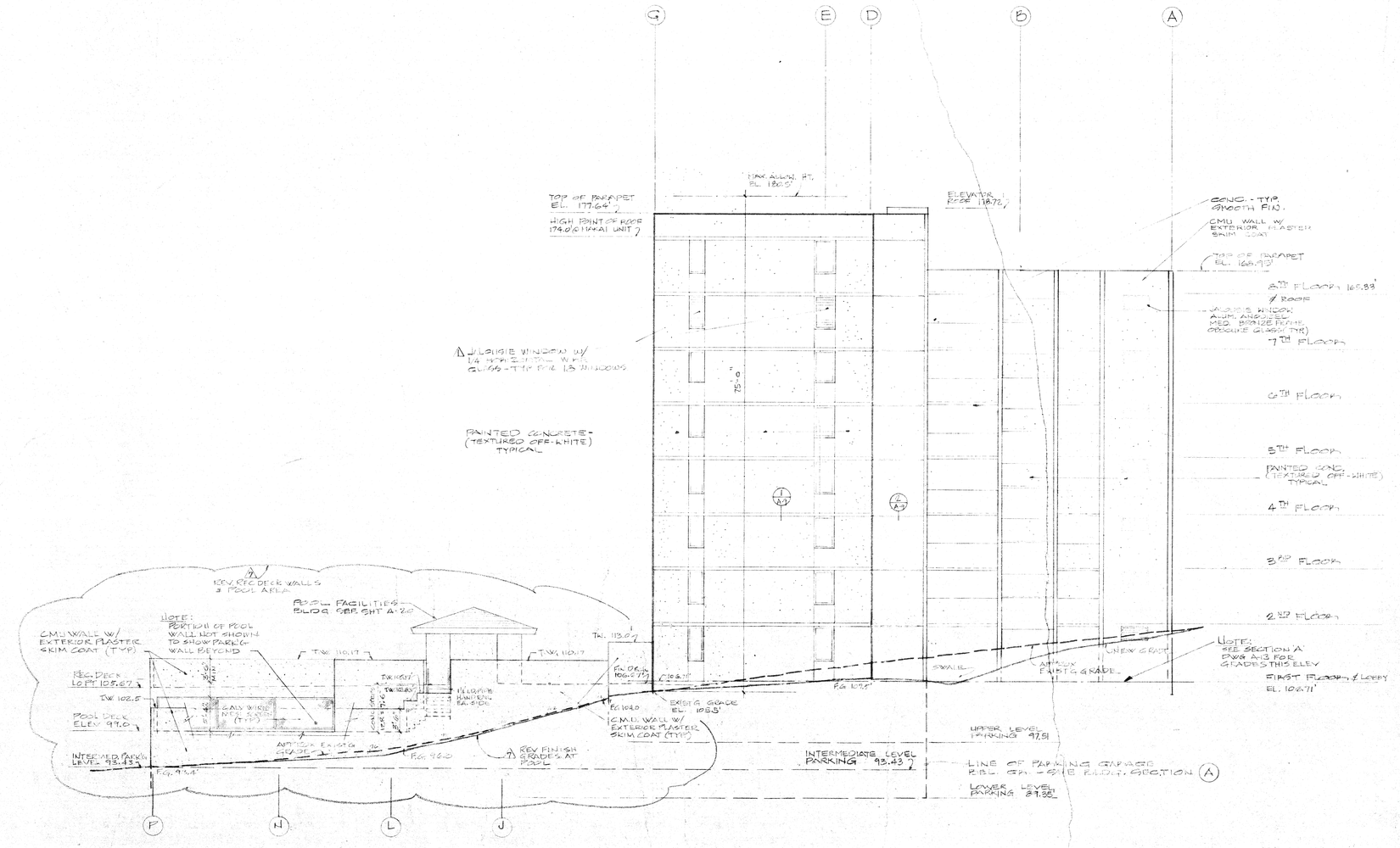
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY	KS
CHECKED BY	
DATE	10-16-78
PROJECT NO.	3707-10-3

EWA ELEVATION

SHEET NO. A-9

OF 7 SHEETS



MAUKA ELEVATION

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

REVISIONS			
3	6-22-79	DLU REVISIONS	TK
2	11-27-78		KS
1	11-20-78	BLDG DEPT CORRECTIONS	KS
REV.	DATE	DESCRIPTION	BY
4	7/15/80	OPEN PARK'G WALLS - REVISE POOL AREA	HGS

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WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

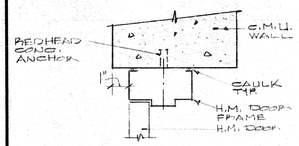
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY	K.S.
CHECKED BY	
DATE	10-16-78
PROJECT NO.	3707-10-3

MAUKA ELEVATION

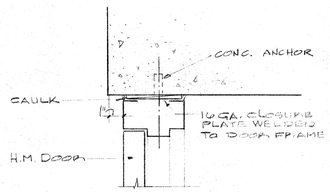
SHEET NO. A-10

OF 20 SHEETS

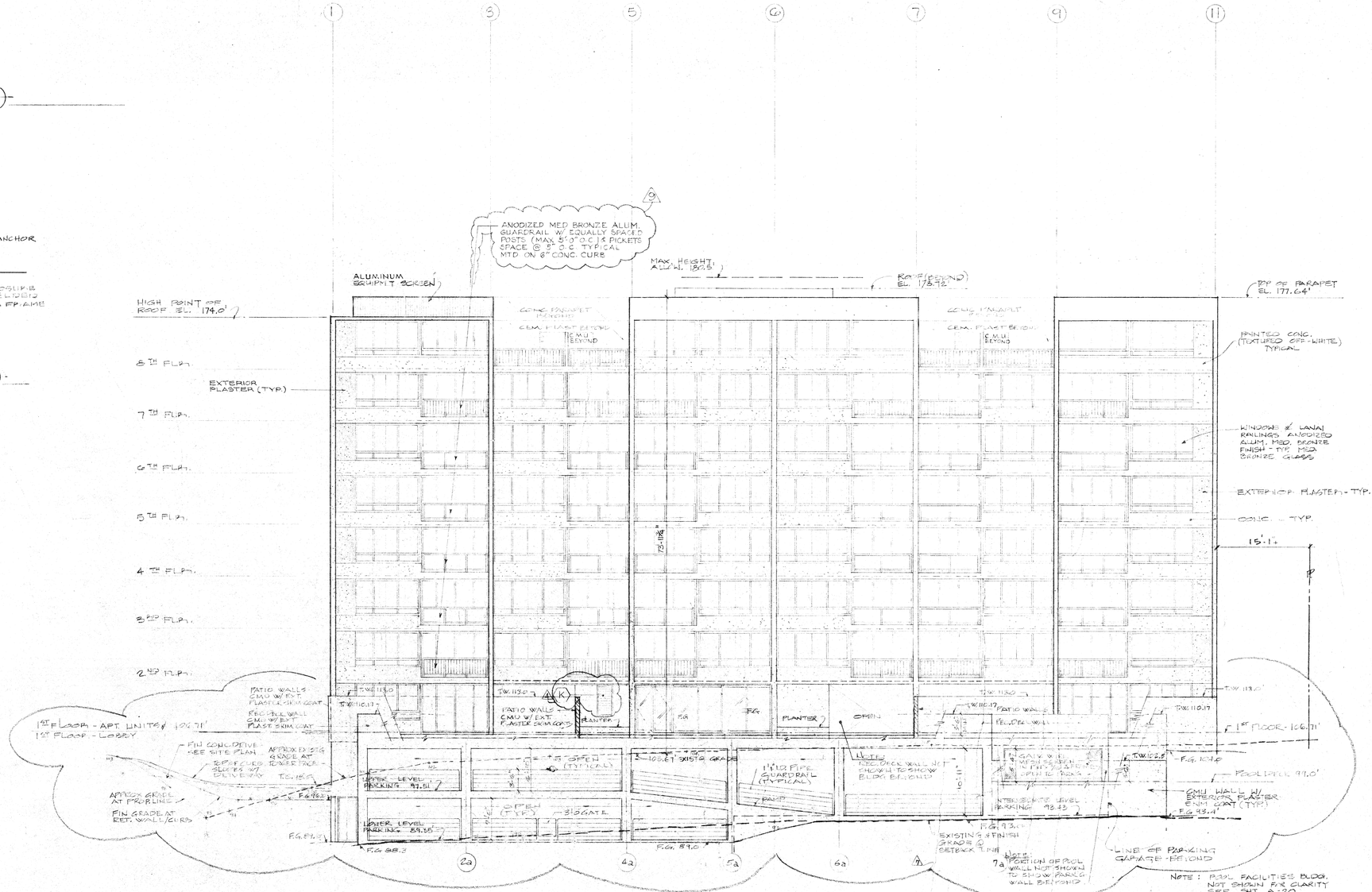


JAMB @ CONC. WALL

JAMB - (1/A11)



HEAD - (2/A11)



DIAMOND HEAD ELEVATION

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

REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	12-18-78	BLDG. DEPT. CORRECTIONS	K.S.
2	11-27-79		K.S.
3	11-20-79	BLDG. DEPT. CORRECTIONS	K.S.
4	8/29/80	LANAI CURB & RAILING	ABP
5	7/15/80	OPEN PARKING WALLS REV. POOL AREA & FIN GRADES	K.S.
6		BLDG. DEPT COMMENTS	K.S.
7	6-22-79	DLU REVISIONS	T.K.

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PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

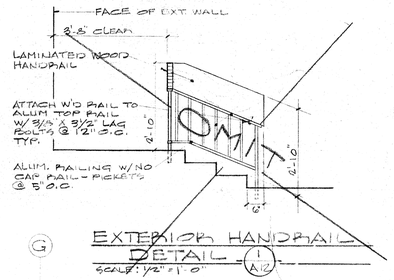
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY	K.S.
CHECKED BY	
DATE	12-16-79
PROJECT NO.	3707-10-3

DIAMOND HEAD ELEVATION

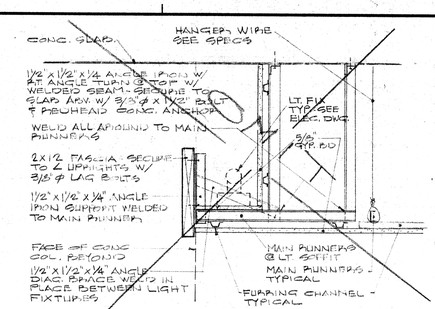
SHEET NO. A-11

OF 20 SHEETS



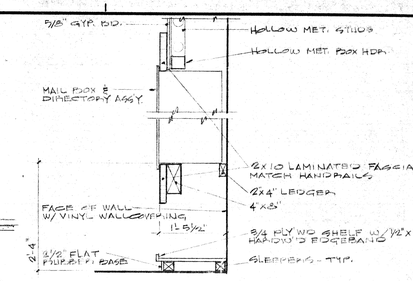
EXTERIOR HANDRAIL DETAIL — 1/A12

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



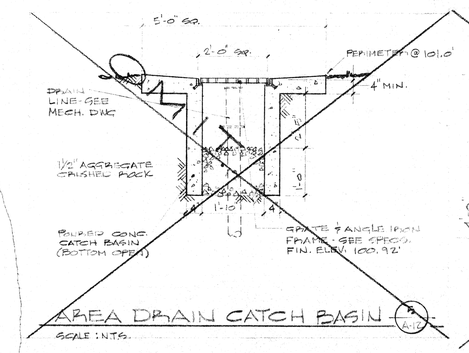
LIGHT SOFFIT DET. — 2/A12

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



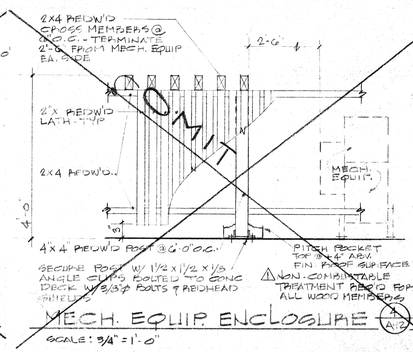
MAILBOX - DET. — 3/A12

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



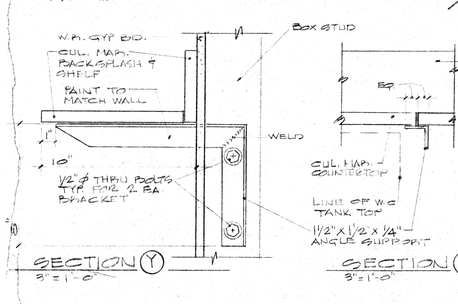
AREA DRAIN CATCH BASIN — 5/A12

SCALE: N.T.S.



MECH. EQUIP ENCLOSURE — 6/A12

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



SECTION (Y) 3"=1'-0"

SECTION (X) 3"=1'-0"

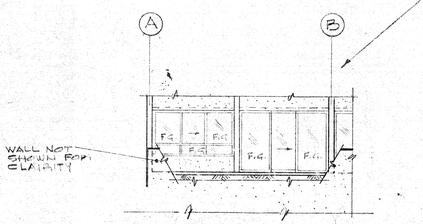
PLAN 1"=1'-0"

DETAIL — 6/A12 — REMOVABLE CULT. MARBLE SHELF

SCALE: AS NOTED

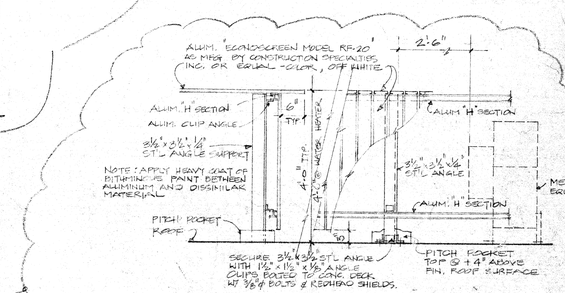
MAKAI ELEVATION

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



UNITS 101 & 102 — ELEVATION

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



4/A-12 MECH. EQUIP. TRELLIS ENCLOSURE

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

REVISIONS						
1	12-13-78	BLDG. DEPT. CORRECTIONS	KG	4	8/29/80	LANAI CURB & RAILING	ABP
2	11-27-78		KG	3	7/15/80	OPEN PARKING WALLS - REV. FINISH GRADES	HGG
1	11-20-78	BLDG. DEPT. CORRECTIONS	KG	2	5-24-79	BLDG. DEPT. COMMENTS - REVISED DET. 5/A-12	KH
REV.	DATE	DESCRIPTION	BY	1		BLDG. DEPT. COMMENTS	KG
				3	6-22-79	P.L.U. REVISIONS	TK

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DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII

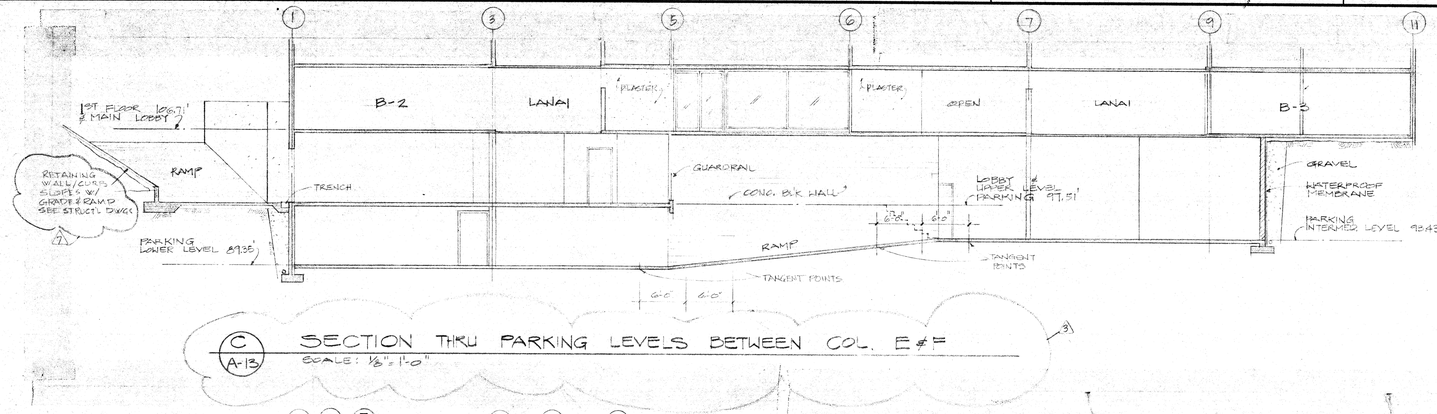
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

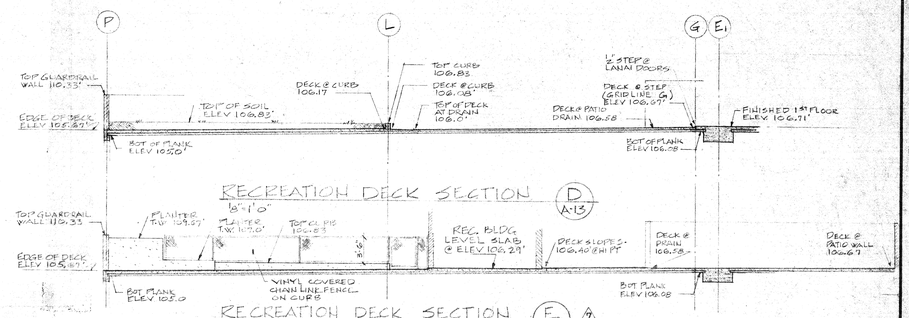
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	MAKAI ELEVATION
DRAWN BY K.S.	SHEET NO. A-12
CHECKED BY	
DATE 12-16-79	PROJECT NO. 3727.10.3
	OF SHEETS



C A-13 SECTION THRU PARKING LEVELS BETWEEN COL. E & =

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

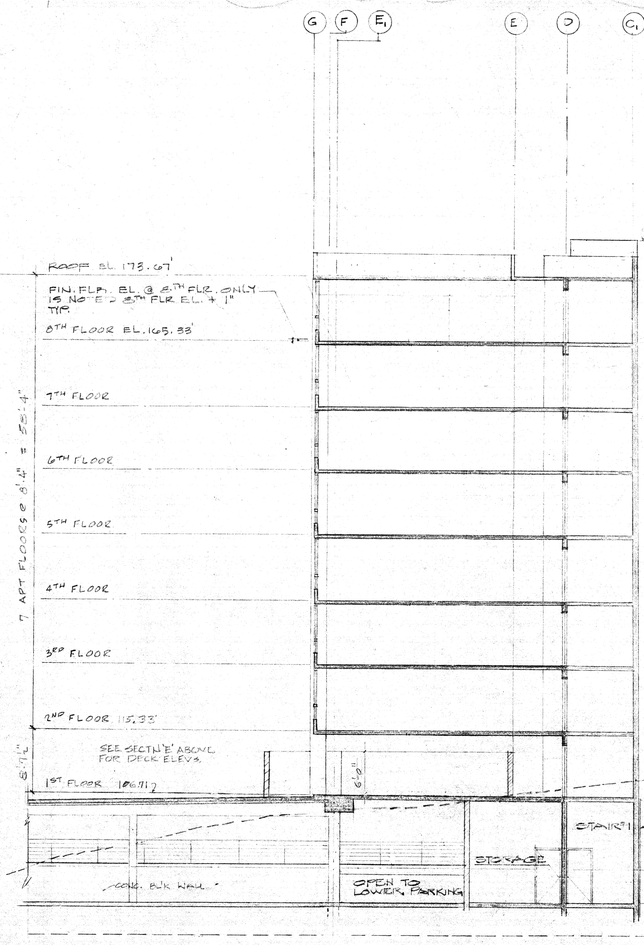


RECREATION DECK SECTION D A-13

1/8"=1'-0"

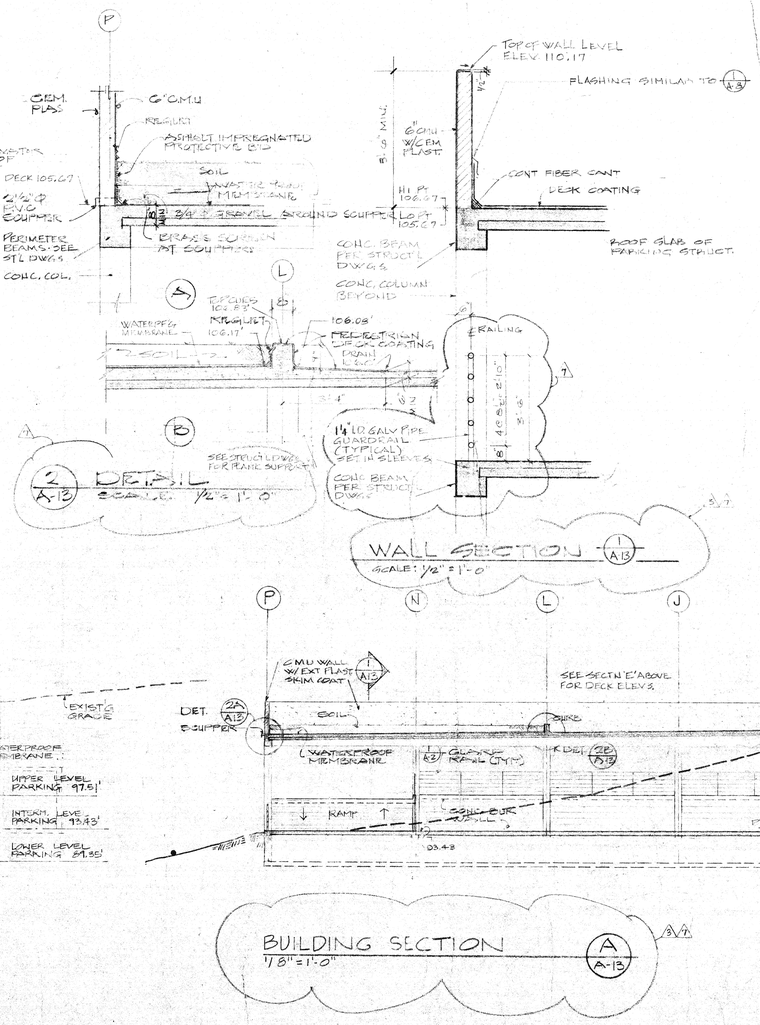
RECREATION DECK SECTION E A-13

1/8"=1'-0"



BUILDING SECTION B A-13

1/8"=1'-0"

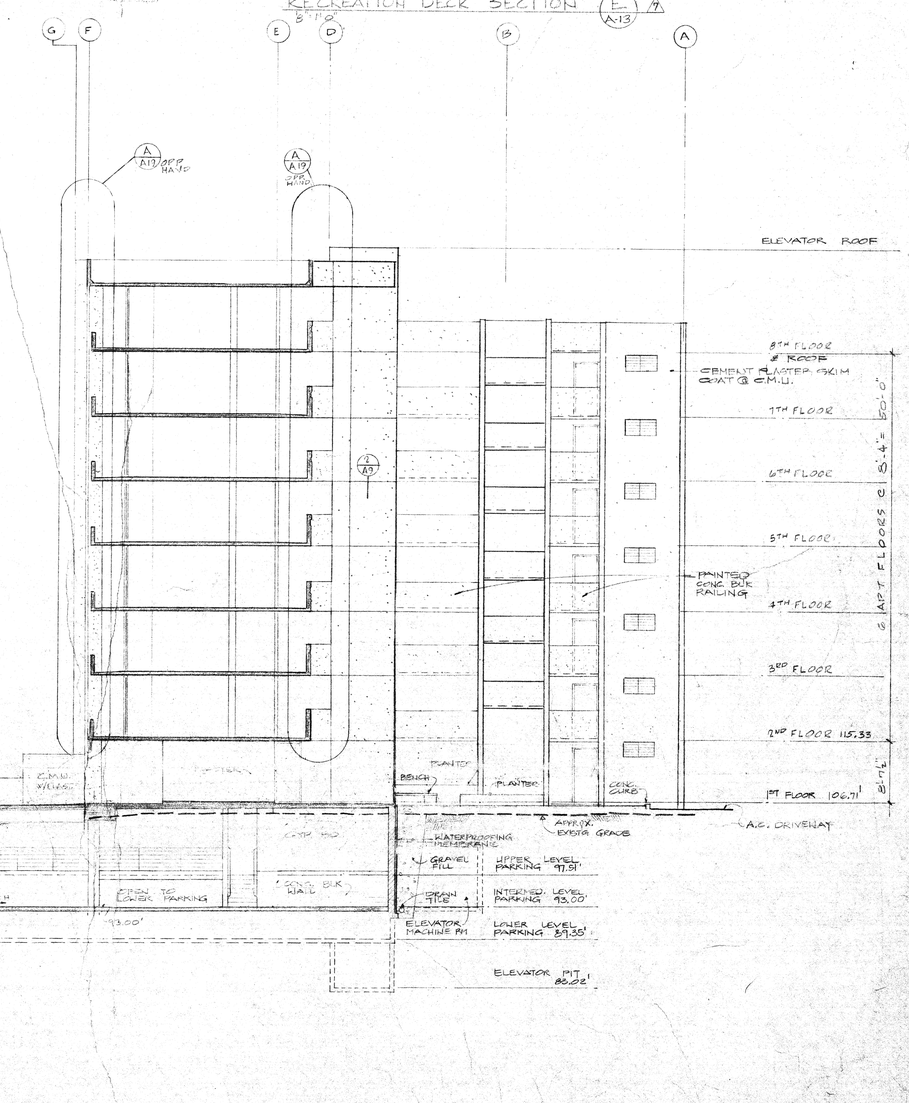


DETAIL 2 A-13

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

BUILDING SECTION B A-13

1/8"=1'-0"



BUILDING SECTION A A-13

1/8"=1'-0"

REVISIONS			
7	7/15/80	OPEN PARK'G WALLS	HGS
6	6-22-70	D.L.U. REVISIONS	TK
1	11-20-78	BLDG. DEPT CORRECTIONS	
REV.	DATE	DESCRIPTION	BY

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WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

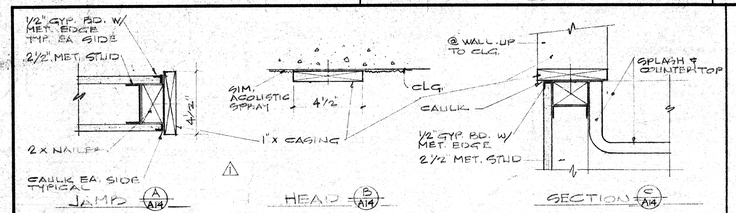
1054 GREEN ST., HONOLULU, HAWAII

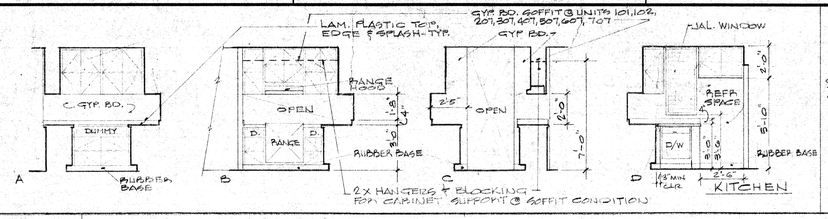
DESIGNED BY	
DRAWN BY	K.W.
CHECKED BY	
DATE	10-16-76
PROJECT NO.	3707-10-3

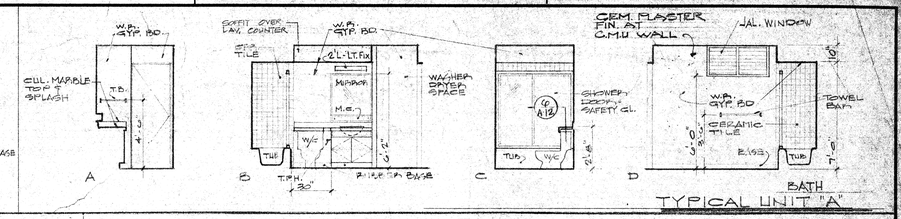
BUILDING SECTIONS

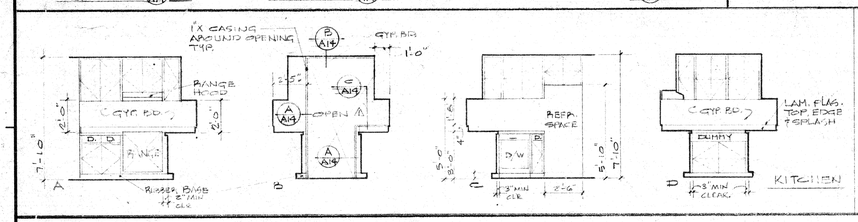
SHEET NO. A-13

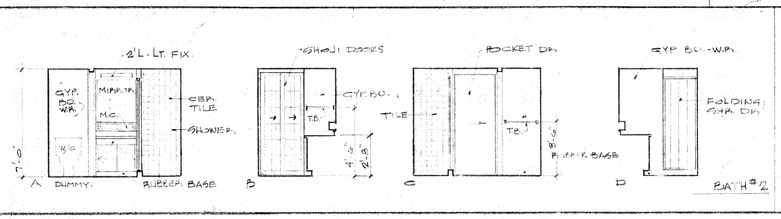
OF SHEETS

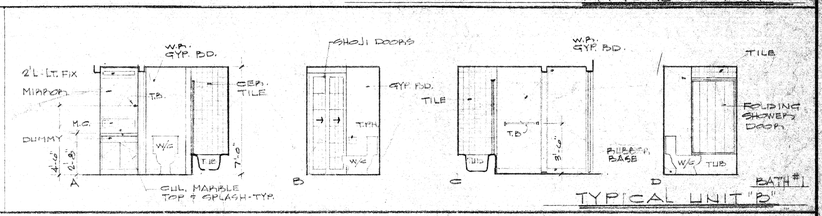

1/2" GYP. BD. W/ MET. EDGE TYP. EA. SIDE
2½" MET. STUD
2 X NAILER
CAULK EA. SIDE TYPICAL
4'-6"
JAMB A A14
SIM. ACOUSTIC STRIP
4½"
1" X CASING
HEAD B A14
@ WALL - UP TO CLG.
CLG.
CAULK
1/2" GYP. BD. W/ MET. EDGE
2½ MET. STUD
SPLASH & COUNTERTOP
SECTION C A14

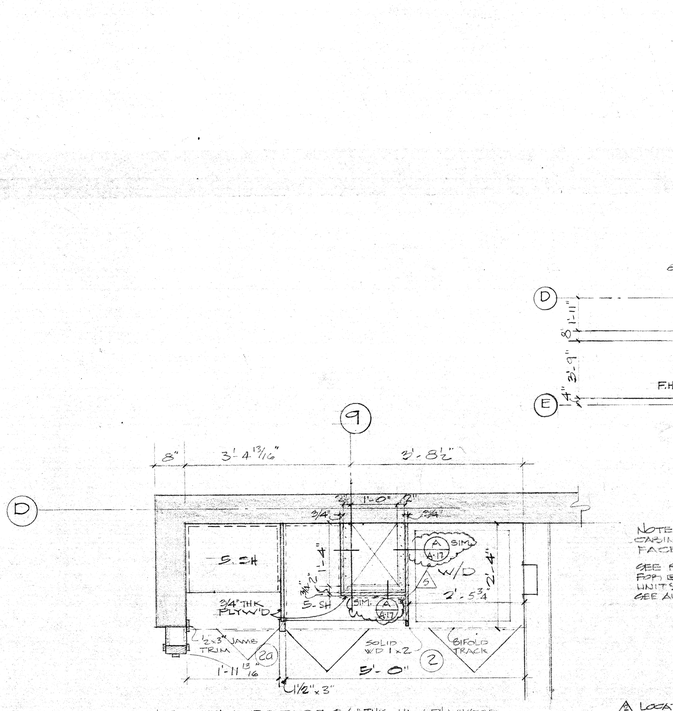

C GYP. BD.
DUMMY
RUBBER BASE
A
LAM. PLASTIC TOP, EDGE & SPLASH - TYP.
OPEN
RANGE HOOD
RANGE
RUBBER BASE
B
GYP. BD. SOFFIT @ UNITS 101, 102, 201, 301, 401, 501, 601, 701
GYP. BD.
OPEN
C
JAL. WINDOW
REFR. SPACE
D/W
RUBBER BASE
D
16" MIN CLR.
2'-6"
KITCHEN
2X HANGERS & BLOCKING FOR CABINET SUPPORT @ SOFFIT CONDITION

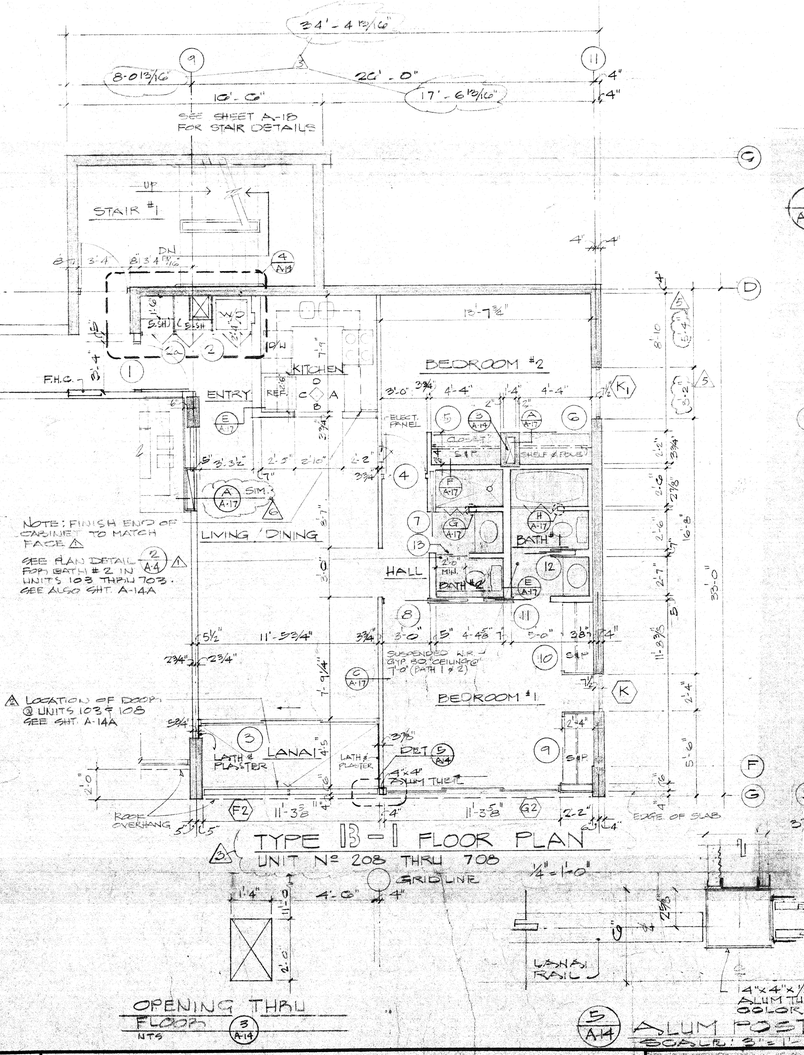

W.P. GYP. BD.
CULT. MARBLE TOP & SPLASH
T.B.
A
SOFFIT OVER LAV. COUNTER
CER. TILE
2'L. LT. FIX
MIRROR
M.C.
W.P. GYP. BD.
WASHER DRYER SPACE
T.B.
T.P.H.
30"
RUBBER BASE
B
SHOWER DOOR - SAFETY GL.
C
CEM. PLASTER FIN. AT C.M.U. WALL
JAL. WINDOW
W.P. GYP. BD.
CERAMIC TILE
TOWEL BAR
D
BATH
TYPICAL UNIT "A"

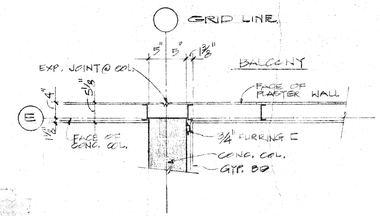

1X CASING ABOVE UNIT OPENING TYP.
GYP. BD.
1'-0"
C GYP. BD.
RANGE HOOD
D. D.
RANGE
RUBBER BASE AT S.H.N.
A
OPEN
B
REFR. SPACE
D/W
C
3" MIN CLR.
2'-6"
C GYP. BD.
DUMMY
LAM. PLAS. TOP, EDGE & SPLASH
D
3" MIN CLEAR.
KITCHEN

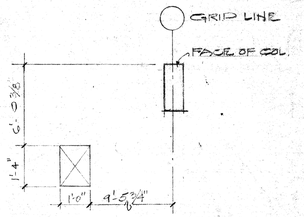

2'L. LT. FIX.
GYP. BD. W.P.
MIRROR
M.G.
W/C
CER. TILE
SHOWER
A
DUMMY
RUBBER BASE
"SHOJI" DOORS
GYP. BD.
T.B.
B
POCKET DR.
TILE
T.B.
C
GYP BD. - W.P.
FOLDING SHR. DR.
D
BATH #2


W.P. GYP. BD.
2'L. LT. FIX
MIRROR
M.G.
DUMMY
T.B.
CER. TILE
W/C
TILE
A
CULT. MARBLE TOP & SPLASH - TYP.
"SHOJI" DOORS
GYP. BD.
T.P.H.
W/C
B
W.P. GYP. BD.
TILE
T.B.
TUB
C
TILE
FOLDING SHOWER DROP
RUBBER BASE
W/C
TUB
D
BATH #1
TYPICAL UNIT "B"


9
8"
3'-4 13/16"
2'-8½"
D
1'-0"
2"
3/4"
2¾"
S.SH
3/4" THK. PLYWOOD
1'-4"
SIM.
A A17
W/D
2'-5¾"
S.SH
SIM.
A A17
2"x3" JAMB TRIM
20
SOLID WD 1x2
2
BIFOLD TRACK
1'-11 15/16"
1½"x3"
5'-0"
NOTE: SHELVES TO BE 3/4" THK. HW PLYWOOD WITH HW. EDGING AT ALL EXPOSED EDGES
4 A14
DETAIL AT ENTRY UNIT "B-1"
SCALE: 3/4" = 1'-0"

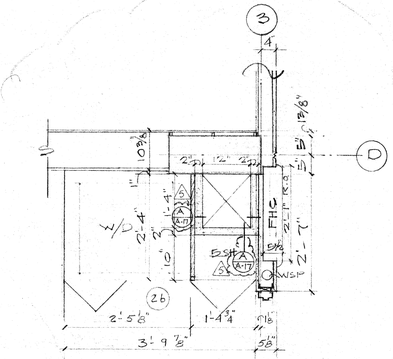

24'-4 13/16"
8'-0 13/16"
9
10'-0"
20'-0"
17'-6 13/16"
11
4"
4"
SEE SHEET A-1D FOR STAIR DETAILS
STAIR #1
UP
DN
4
A/D
8"
3'-4
8'-3 4 13/16"
4'-4"
D
E
F.H.C.
8'-1"
21'-9"
4"
KITCHEN
ENTRY
REF.
C
O
A
ELECT. PANEL
SHELF & POLES
SIM.
A A17
LIVING / DINING
HALL
BATH #2
BEDROOM #2
12'-7⅞"
2'-0"
3¾"
4'-4"
4'-4"
1'-4"
4'-4"
K1
2'-5"
2'-10"
2'-2"
3¾"
5'-1"
1'-6"
3¾"
2'-7⅜"
16'-8"
5'-1"
2'-7"
83'-0"
8
3'-0"
5"
4'-6⅝"
5'-0"
3⅜"
11
3⅜"
SUSPENDED N.R.C. GYP. BD. CEILING 7'-0" (PATH 1 & 2)
10
C4
BEDROOM #1
11'-5¾"
7'-9¼"
K
LANAI
LATH & PLASTER
DET
E A14
4"x4" ALUM TUBE
9
S4P
F2
11'-3⅜"
F2
11'-3⅜"
2'-2"
5'-4"
EDGE OF SLAB
ROOF OVERHANG
5'-0"
F
G
3½"
A LOCATION OF DOOR @ UNITS 103 & 108 SEE SHT A-14A
NOTE: FINISH END OF CABINET TO MATCH FACE △
SEE PLAN DETAIL 2/A14 △ FOR BATH #2 IN UNITS 103 THRU 703. SEE ALSO SHT A-14A
5 A14
TYPE B-1 FLOOR PLAN
UNIT Nº 208 THRU 708
1/4" = 1'-0"


GRID LINE
EXP. JOINT @ COL.
5"
5"
1/4"
1/8"
BALCONY
FACE OF PLASTER WALL
E
5/8"
1/8"
4"
EDGE OF CONC. COL.
¼" FURRING
CONC. COL.
GYP. BD.
2 A-14
TYPICAL DETAIL @ COLUMN
SCALE: 3/4" = 1'-0"

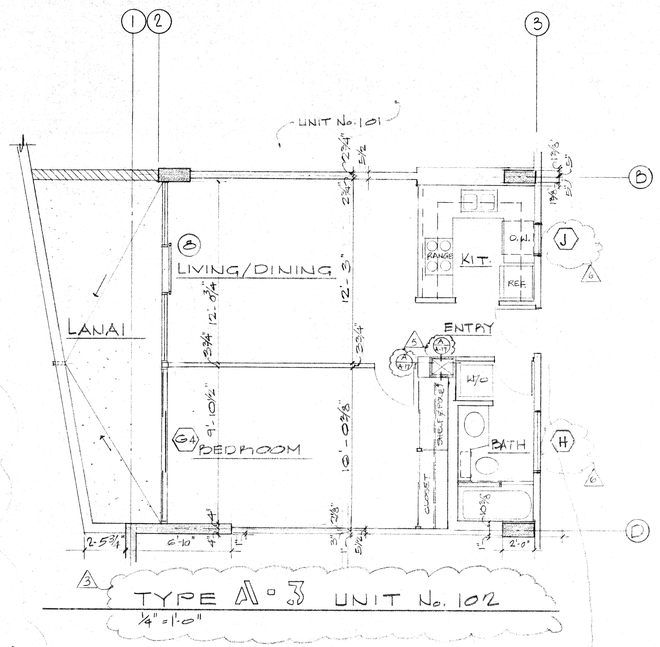

GRID LINE
FACE OF COL.
5'-0 5/8"
1'-4"
1'-0"
4'-5¾"
CONDITION @ 2ND FLR & ABOVE OPENING THRU FLOOR
1 A14
N.T.S

1'-4"
4'-0"
4"
4'-0"
GRID LINE
OPENING THRU FLOOR
3 A14
N.T.S

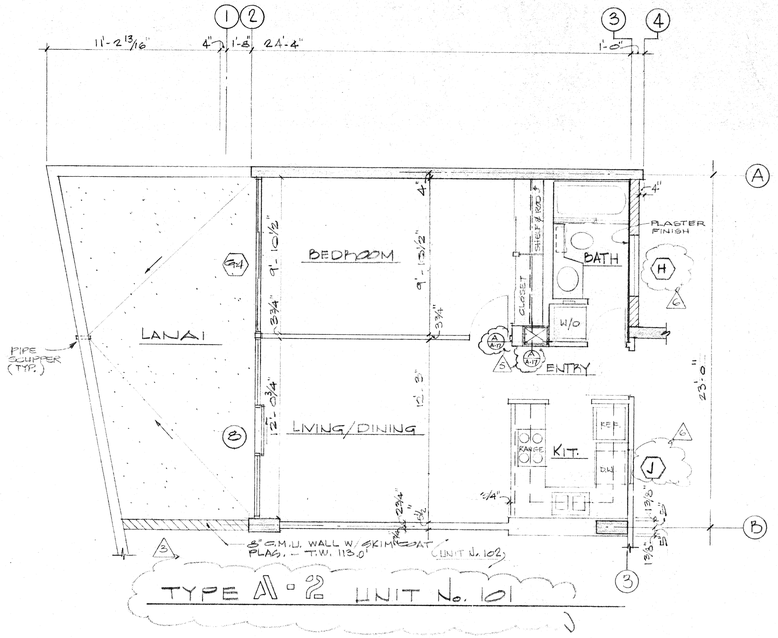
1'-4"
1'-0"
4'-5¾"
4"
4"
4



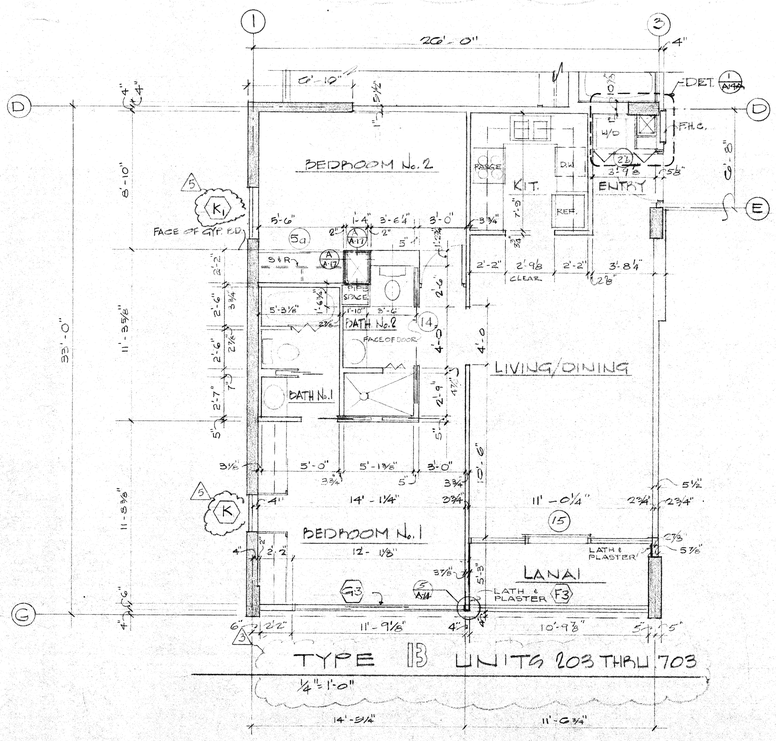
1 / A-14A WASHER DRYER AT ENTRY
SCALE: 3/4" = 1'-0"



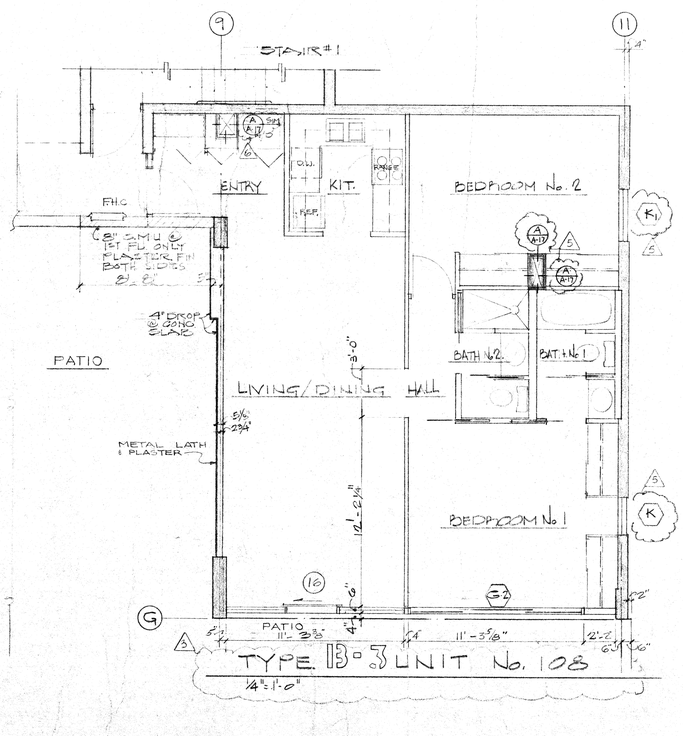
TYPE A-3 UNIT No. 102
1/4" = 1'-0"



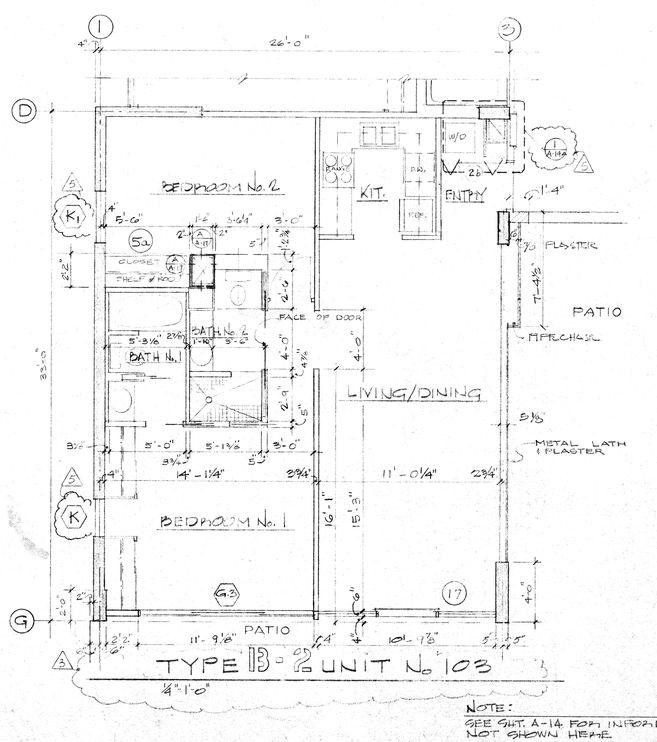
TYPE A-2 UNIT No. 101



TYPE 13 UNITS 203 THRU 703
1/4" = 1'-0"



TYPE 13-3 UNIT No. 108
1/4" = 1'-0"



TYPE 13-2 UNIT No. 103
1/4" = 1'-0"

NOTE:
SEE SHT. A-14 FOR INFORMATION NOT SHOWN HERE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
3	6-22-79	D.L.I. REVISIONS	TK
2	8-24-79	BLDG. DEPT. COMMENTS.	KH
1	9-17-79	BLDG. DEPT. COMMENTS	KH

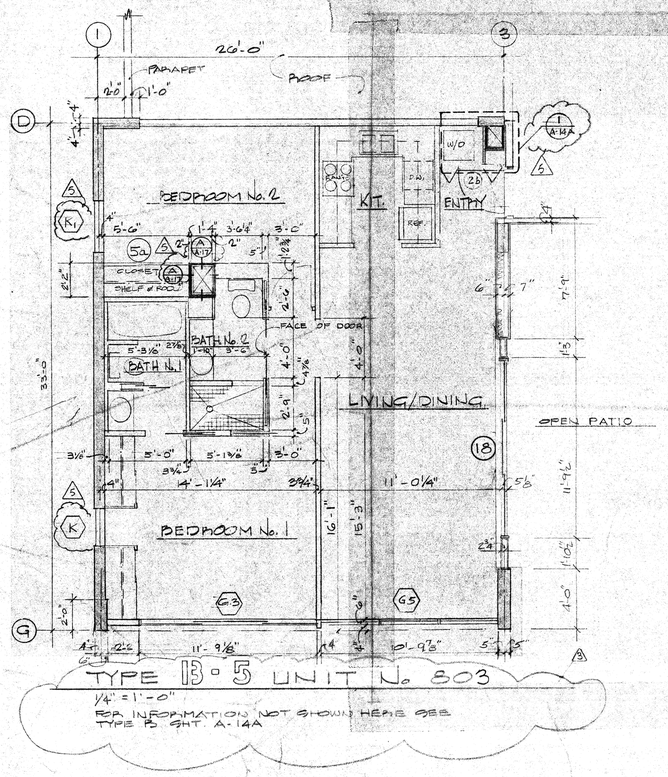
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.
JACK C. LIPMAN REGISTERED PROFESSIONAL ENGINEER No. 1815 HAWAII U.S.A.

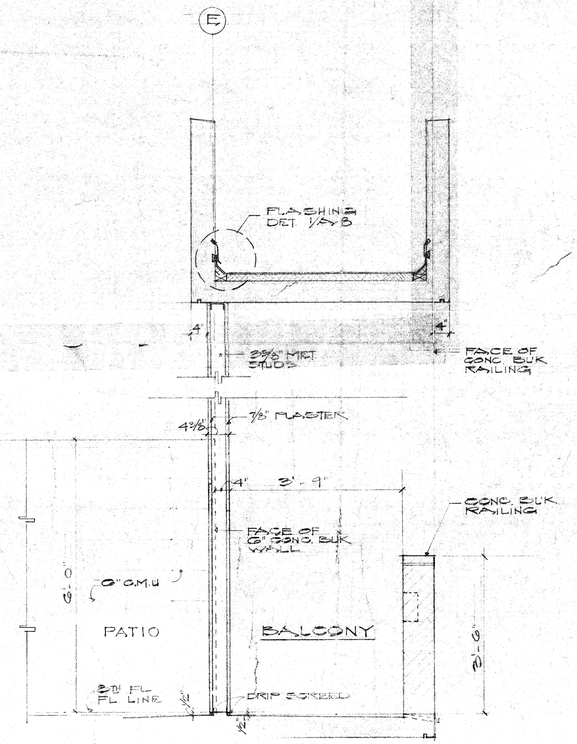
DMJM
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

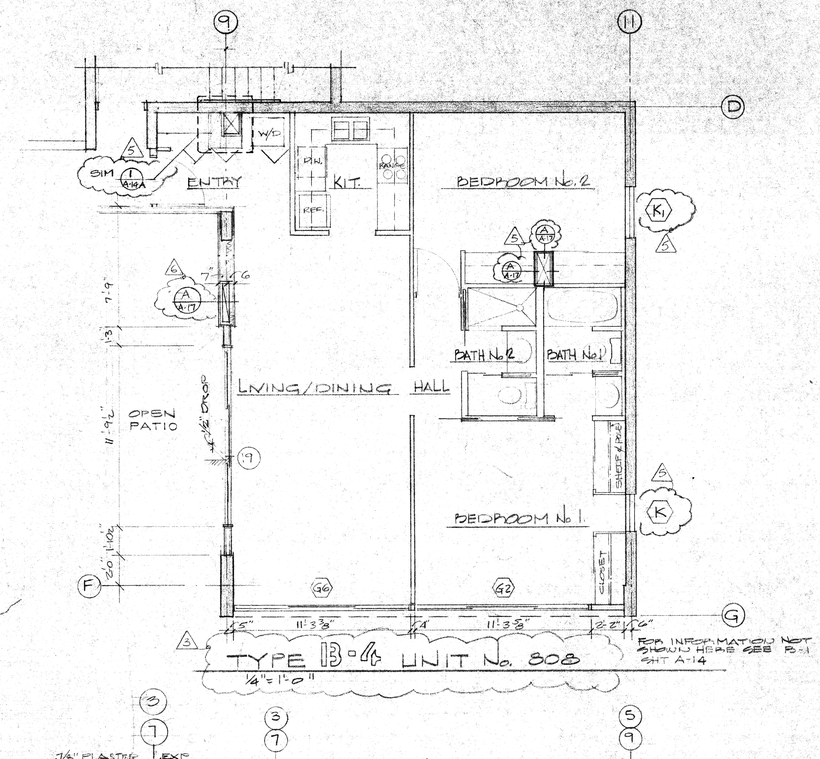
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	10-16-78
PROJECT NO.	3707-10+3

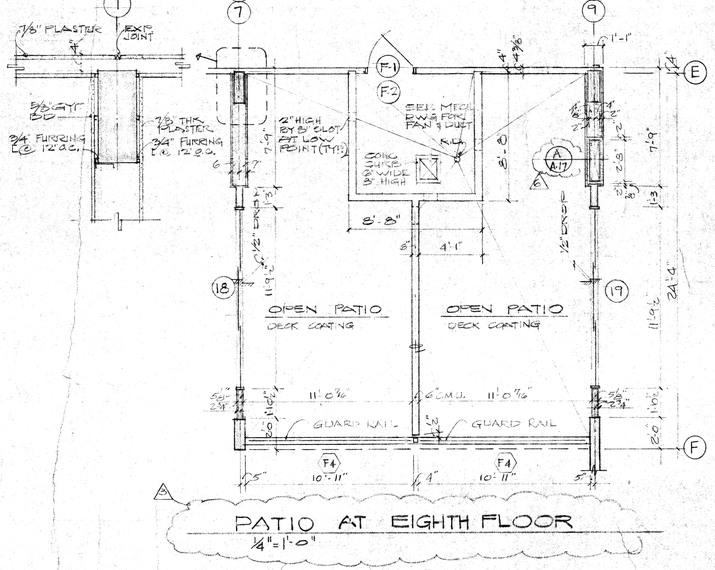
1/4" UNIT FLOOR PLANS
SHEET NO. A-14A
OF SHEETS





A/A4E SECTION AT BALCONY ROOF & OPEN PATIO
SCALE: 3/4" = 1'-0"





NOTE:
SEE SHT. A-14 FOR INFORMATION NOT SHOWN HERE

REVISIONS			
5	6-22-79	D.L.W. REVISIONS	TK
4	5-24-79	BLDG. DEPT. COMMENTS -	KH
3	9-17-79	BLDG. DEPT.	KH
REV.	DATE	DESCRIPTION	BY

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1815 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY	KS
CHECKED BY	
DATE	12-16-78
PROJECT NO.	8707-10-3

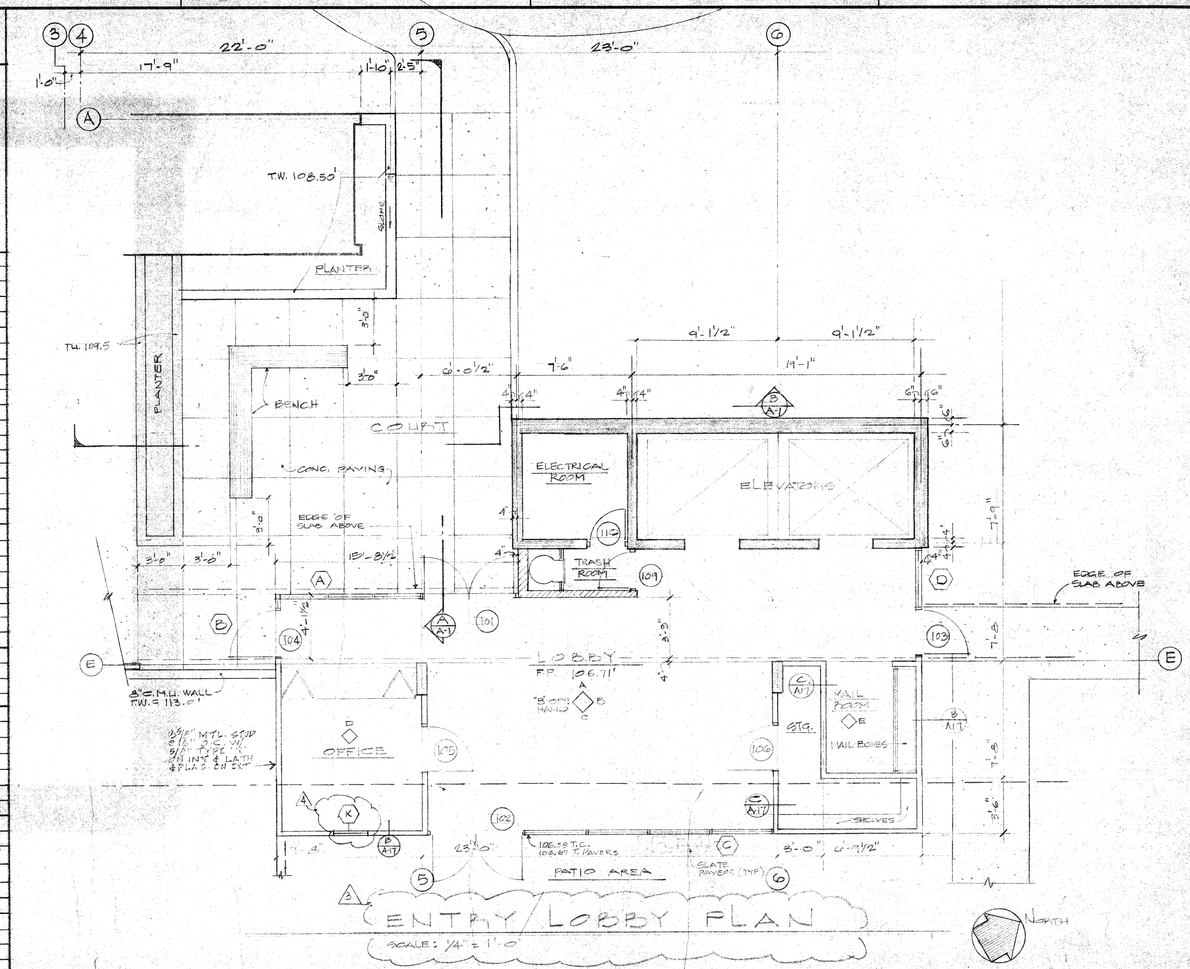
1/4" UNIT FLOOR PLANS

SHEET NO. A-14B OF SHEETS

3 ROOM FINISH SCHEDULE

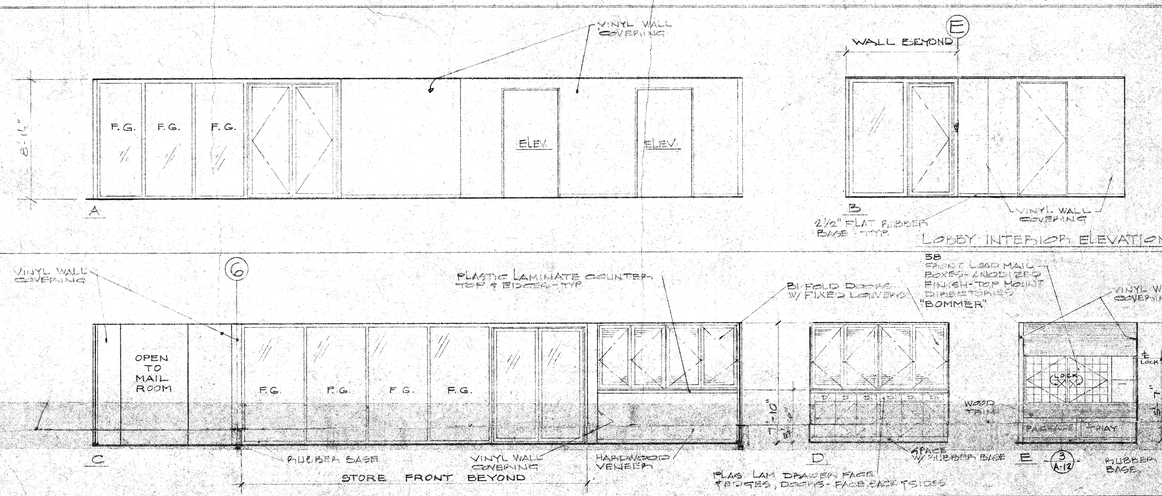
TYPE	SPACE NAME	FLOOR: CAP-PET N.I.C.	FLOOR: CONCRETE	FLOOR: VINYL ASBESTOS TILE	FLOOR: CERAMIC TILE	FLOOR: REDWOOD	FLOOR: DECK COATING	BASE: FLAT RUBBER	BASE: TOP SET RUBBER	BASE: CERAMIC TILE	BASE: NONE	BASE: FLAT RUBBER	BASE: DECK COATING	WALLS & COL.: PAINTED CONCRETE	WALLS & COL.: UNPAINTED CONC.	WALLS & COL.: GYP BOARD-PAINTED	WALLS & COL.: W.R. GYP BOARD-PAINTED	WALLS & COL.: CERAMIC TILE	WALLS & COL.: WINDOW WALL	WALLS & COL.: EXTERIOR PLASTER	WALLS & COL.: PLASTER	WALLS & COL.: VINYL WALL COVERING	WALLS & COL.: REDWOOD	WALLS & COL.: PAINTED C.M.U.	WALLS & COL.: UNPAINTED C.M.U.	CEILING: PAINTED CONC.	CEILING: UNPAINTED CONC.	CEILING: SIMULATED ACOUSTIC SPRAY	CEILING: GYP. BOARD	CEILING: W.R. GYP. BOARD	CEILING: REDWOOD	CEILING HEIGHT	REMARKS
LOWER PARKING LEVEL	PARKING AREA		●								●			●											●							
	LOBBY		●								●			●											●	●						
	STAIR #3		●																						●	●						
	STORAGE #1		●								●														●	●						
	STORAGE #2		●											●		●									●	●						
INTERMEDIATE & UPPER PARKING LEVEL	PARKING UPPER LEVEL		●								●			●											●							
	PARKING INTER. LEVEL		●								●			●											●							
	LOBBY			●																						●							
	LOBBY STAIR #4		●											●											●	●						
	TRASH ROOM		●								●			●											●	●						
	ELEC. EQUIP. RM.		●								●			●											●	●						
	STORAGE #1		●								●			●											●	●						
	STORAGE #2		●								●			●											●	●						
	ELEV. MACHINE ROOM		●								●			●											●	●						
1ST FLOOR	LOBBY		●									●											●			●						
	OFFICE		●									●				●							●			●						
	MAIL ROOM		●									●											●			●						
	STORAGE			●							●					●									●							
	TRASH ROOM			●										●											●							
	ELEC. ROOM			●										●											●							
	STAIR #1			●										●											●							
	STAIR #2			●										●											●							
POOL FACILITIES BUILDING	MEN				●						●							●											●			
	WOMEN				●						●							●											●			
	MEN'S SAUNA				●													●											●			
	WOMEN'S SAUNA				●													●											●			
	JANITOR			●							●														●							
UNIT A & A-R	ENTRY		●								●														●							
	KITCHEN			●							●														●							
	BATH			●							●														●							
	WASHER/DRYER			●							●														●							
	LIVING/DINING		●								●														●							
	BEDROOMS		●								●														●							
	WARDROBE		●								●														●							
	LANAI			●																					●							
UNIT B & B-R	ENTRY		●								●														●							
	WASHER/DRYER/LINEN			●							●														●							
	KITCHEN			●							●														●							
	LIVING/DINING		●								●														●							
	HALL		●								●														●							
	BATH #2			●							●														●							
	BEDROOM #1		●								●														●							
	WARDROBES		●								●														●							
	BATH #1			●							●														●							
	BEDROOM #2		●								●														●							
	WARDROBES		●								●														●							
	LANAI			●																					●							

CEILING HEIGHT	REMARKS
7'-0" MIN. BOTTOM OF BEAM (VARIES)	
8'-0"	
7'-10"	
8'-0"	
7'-6"	
7'-6"	
8'-0"	
7'-10"	FLOOR TO CEILING HEIGHT @ FURRED CEILING 7'-0"
7'-10"	
7'-0"	
7'-10"	
7'-10"	
7'-0"	
7'-10"	



3 ENTRY LOBBY PLAN

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



LOBBY INTERIOR ELEVATIONS

INTERIOR ELEVATIONS @ LOBBY

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

REVISIONS			
4		BLDG. DEPT. COMMENTS	K.S.
3	6-22-78	D.L.U. REVISION	K&P
2	11-29-78	BLDG. DEPT. CORRECTIONS	K.S.
REV.	DATE	DESCRIPTION	BY

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1815 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Jack C. Lipman

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII

WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	K.S.
DRAWN BY	K.W., K.S.
CHECKED BY	
DATE	10-10-78
PROJECT NO.	3707-12-3

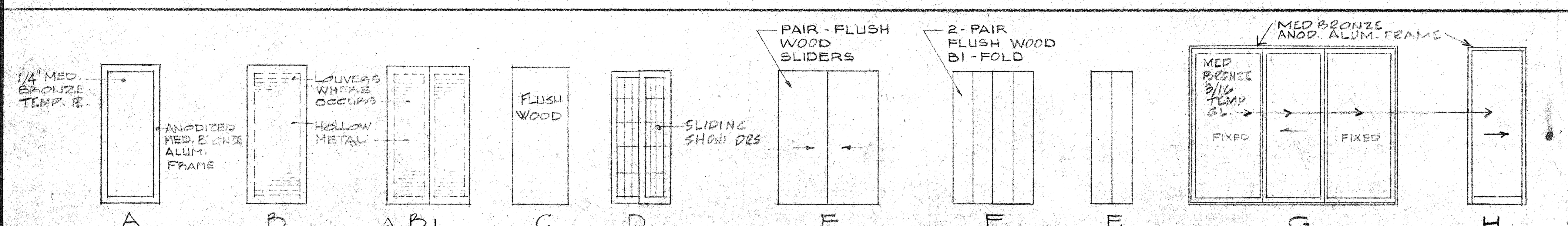
ENTRY LOBBY PLAN & INT. ELEV. ROOM FINISH SCHEDULE

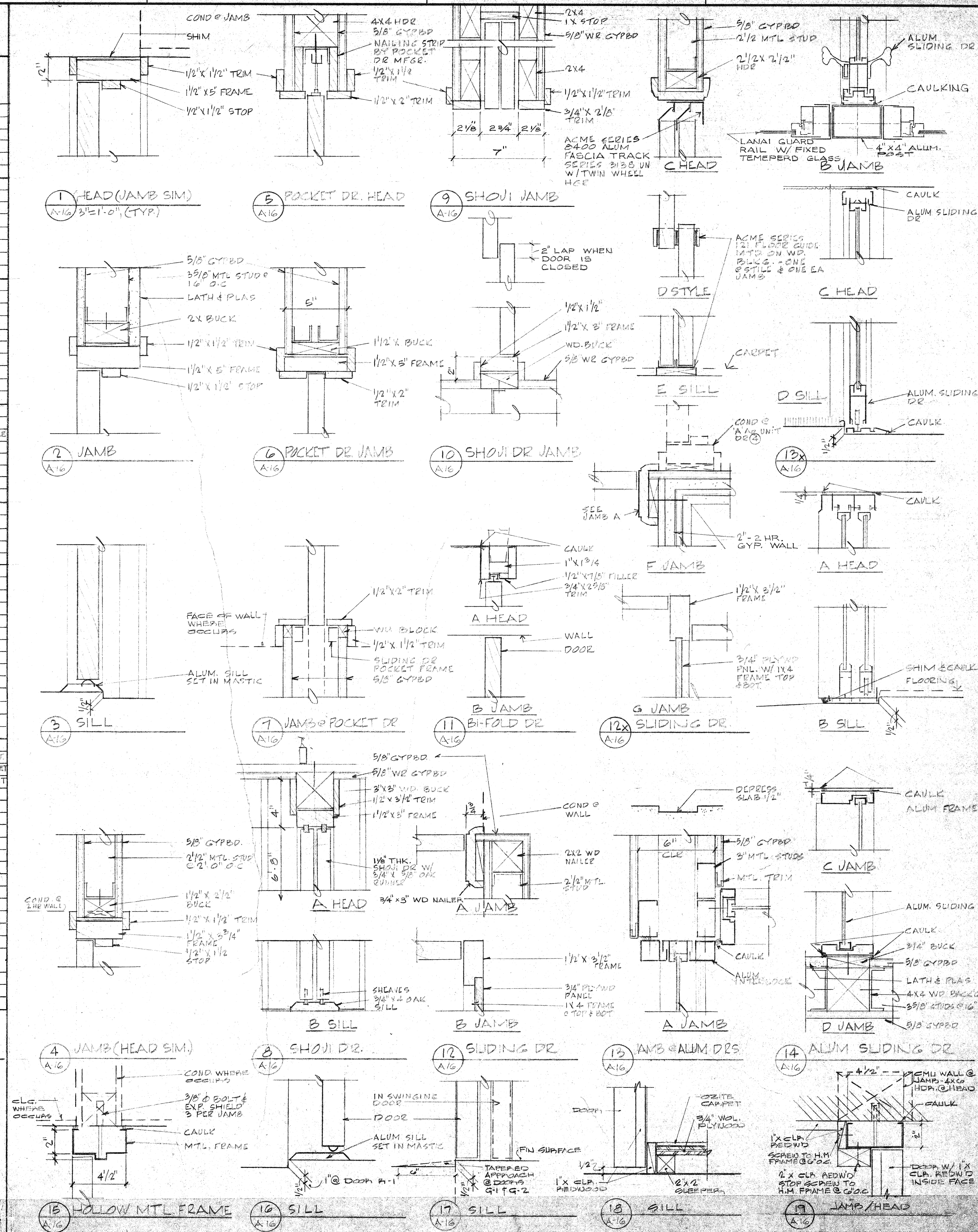
SHEET NO. A-15 OF SHEETS

DOOR SCHEDULE

FLOOR	DR. NO	SIZE WIDTH	SIZE HEIGHT	SIZE THICK	TYPE	U.L. LABEL	LOUVER	GLAZING	DETAIL (DETS. THIS SHT UNLESS OTHERWISE NOTED) HEAD	JAMB	JAMB	TRANS	SILL	DOOR MAT	HW NO	SIGN	REMARKS
LOWER PARKING LEVEL	P2-1	3'-0"	7'-0"	1 3/4"	B		FULLY LOUV'RD		15	15	15		17	HM	1	STORAGE	CLOSER
	P2-2	△ 3'-0"	7'-0"	1 3/4"	B		FULLY LOUV'RD		15	15	15		17	HM	2	STORAGE	CLOSER
	P2-3	3'-0	7'-0"	1 3/4"	B	△ 1 HR			15	15	15		16 △	HM	4 △	EXIT	CLOSER
	P2-4 △	△ DELETED															
INTERMEDIATE & UPPER PARKING LEVEL	P1-1	3'-0"	6'-8"	—	A			1/4" TEMP PL	2/A-17	SIM.11/A-17	SIM.11/A-17		3/A-17	AL/GL	8		CLOSER
	P1-2	3'-0"	6'-8"	1 3/4"	C				15	15	15		—	SC WD	7		CLOSER
	P1-3	PR. 3°	7'-0"	1 3/4"	B1	'B' 1 1/2 HR			15	15	15		17	HM	5	TRASH RM.	CLOSERS
	P1-4	3'-0"	6'-8"	1 3/4"	B				15	15	15		17	HM	6	ELECTRICAL	
	P1-5	3'-0"	7'-0"	1 3/4"	B	'B' 1 1/2 HR			15	15	15		17	HM	7	EXIT	CLOSER
	P1-6	△ DELETED			B	'B' 1 1/2 HR			15	15	15		16	HM	4	EXIT	CLOSER
	P1-7,8	3'-0"	7'-0"	1 3/4"	B		FULLY LOUVERED		15	15	15		16	HM	1	STORAGE	CLOSER
	P1-9	3'-0"	6'-0"	1 3/4"	B	'B' 1 1/2 HR			15	15	15		17	HM	4	ELEVATOR MACH. RM.	CLOSER
1ST FLOOR	101	PR. 3°	7'-11 1/2" △	—	A			1/4" TEMP PL.	2/A17	4/A17	6/A17		3/A17	AL/GL	8		CLOSER
	102	PR. 3°	7'-11 1/2" △	—	A			1/4" TEMP PL.	7/A17	6/A17	6/A17		3/A17	AL/GL	8		CLOSER
	103	3'-0"	7'-11 1/2" △	—	A			1/4" TEMP PL	2/A17	6/A17	8/A17		3/A17	AL/GL	8		CLOSER
	104	3'-0"	7'-11 1/2" △	—	A			1/4" TEMP PL	2/A17	4/A17	6/A17		3/A17	AL/GL	8		CLOSER
	105	3'-0"	7'-0"	1 3/4"	C				12/A17	13/A17	15/A17		16/A17	SC WD	9	OFFICE	CLOSER
	106	3'-0"	7'-0"	1 3/4"	C				12/A17	13/A17	14/A17		16/A17	SC WD	9		
	107	3'-0"	7'-0"	1 3/4"	B	'B' 1 1/2 HR			15	15	15		16	HM	4		CLOSER
	108	3'-0"	7'-0"	1 3/4	B	'B' 1 1/2 HR			15	15	15		16	HM	4		CLOSER
	109	2'-4"	7'-0"	1 3/4	B				15	15	15		16	HM	10	TRASH ROOM	CLOSER
	110	2'-4"	7'-0"	1 3/4"	C				15	15	15		—	SC WD	6	ELECTRICAL	
RECREATION	G-1	3'-0"	7'-9 3/4"	1 3/4"	C				15	15	15		17	SC WD	12	WOMEN	CLOSER
	G-2	3'-0"	7'-9 3/4"	1 3/4"	C				15	15	15		17	SC WD	12	MEN	CLOSER
	G-3	3'-0"	6'-8"	1 3/4"	C				19	19	19		18	SC WD	13	WOMENS SAUNA	3/4" CLR. REDWD ON INSIDE DR. FACE
	G-4	3'-0"	6'-8"	1 3/4"	C				19	19	19		18	SC WD	13	MENS SAUNA	3/4" CLR RDWD ON INSIDE DR FACE
	G-5	3'-0"	7'-9 3/4"	1 3/4	C				15	15	15		17	SC WD	14		
	G-6	3'-0"	7'-9 3/4"	1 3/4"	C				15	15	15		17	S.C.WD.	12	EXERCISE RM.	CLOSER
FAN AREA	F-1	3'-0"	7'-0"	1 3/4	B				2/A-11	1/A-11	1/A-11		17	HM	1		
	F-2	3'-0"	7'-0"	1 3/4	B				2/A-11	1/A-11	1/A-11		17	HM	1		
BALCONY FLOORS 1 THRU 8	-01/	3'-0"	7'-0"	1 3/4"	B	'B' 1 1/2 HR			15	15	15		16	HM	10		CLOSER
	-02/	3'-0"	7'-0"	1 3/4"	B	'B' 1 1/2 HR			15	15	15		16	HM	10		CLOSER
	-03/	2'-4"	7'-0"	1 3/4"	B				15	15	15		16	HM	10	TRASH	CLOSER
	-04/	2'-4"	7'-0"	1 3/4"	C				15	15	15			S.C.WD	11		
TYPE "A" UNITS	1	3'-0"	7'-8"	1 3/4"	C				1	2	2		3	SC WD	15	APT NO.	CLOSER
	2	2'-4"	6'-8"	1 3/8"	C				4	4	4		—	H.C WD	16		
	3	2'-8"	6'-8"	1 3/8"	C				4	4	4		—	H.C WD	16		
	4	4'-5 1/4"	6'-8"	1 3/8	E				12C	12F&D	12G		12E	H.C. WD	19		
	5	4'-5 1/4"	6'-8"	1 3/8"	E				12C	12A&D	12F		12E	H.C WD	19		
	6	4'-0 3/4"	7'-10 1/2		H			3/16" TEMP.	13C	13A	13B		13D	AL/GL	–		
	7	9'-9 1/2"	7'-10 1/2"		G			3/16 TEMP.	14A	13A	14C		14B	AL/GL	–		
	8	12'-0 1/8"	8'-2" △		G			3/16 TEMP.	14A	13A	14C		14B	AL/GL	–		
	△ 18	11'-9 1/2"	7'-9 1/2"		G			3/16" TEMP.	14A	14C	14D		14B	AL/GL			
	△ 19	11'-9 1/2"	7'-9 1/2"		G			3/16" TEMP	14A	14C	14D		14B	AL/GL			
TYPE "B" UNITS	1	3'-0"	7'-8"	1 3/4"	C				1	1	2		3	SC WD	15	APT NO	CLOSER
	2	5'-0"	6'-8"	1 1/8"	F				11A	11B	11B		*	WD	20		*BOT. OF DR 1/2" ABOVE CARPET.
	2a	2'-0"	6'-8"	1 1/8"	F1				11A	11B	11B		*	WD	20		*BOT. OF DR. 1/2" ABOVE CARPET
	2b	3'-9 7/8"	6'-8"	1 1/8"	F				11A	11B	11C		*	WD	20		*BOT. OF DR. 1/2" ABOVE CARPET
	3	11'-5 5/8"	7'-10 1/2"		G			3/16" TEMP.	14A	14C	14D		14B	AL/GL.	–		
	4	2'-8"	6'-8"	1 3/8"	C				4	4	4		—	H.C WD	16		
	5	4'-4"	6'-8"	1 3/8"	E				12C	12xF&D	12A		12E	H.C WD	19		
	5a	5'-6"	6'-8"	1 3/8"	E				12C	12xF&D	12A		12E	H.C WD	19		
	6	4'-4"	6'-8"	1 3/8"	E				12C	12xF&D	12A		12E	H.C WD	19		
	7	2'-6"	6'-8"	1 3/8"	C				5	6	7		—	H.C WD	17		
	8	2'-10"	6'-8"	1 3/8"	C				5	6	7		—	H.C WD	17		
	9	4'-4"	6'-8"	1 3/8"	E				12C	12B&D	12A		12E	H.C.WD	19		
	10	4'-4"	6'-8"	1 3/8"	E				12C	12B&D	12A		12E	H.C.WD	19		
	11	2'-6"	6'-8"	1 3/8	C				5	6	7		—	H.C.WD	17		
	12	2'-8"	6'-8"		D				8A	9	10		8B		18		FLAME SPREAD - 200 SMOKE DEVELOPED - 123 △
	13	2'-2"	6'-8"		D				8A	9	10		8B		18		FLAME SPREAD - 200 SMOKE DEVELOPED - 123 △
	14	4'-0"	6'-8"	1 3/8"	C				5	6	7			H.C.WD.	21		
	15	11'-0 1/8"	7'-10 1/2"		G			3/16" TEMP	14A	14C	14D		14B △	AL/GL			
	16	11'-3 3/8"	8'-2" △		G			3/16" TEMP	14A	14C	14D		14B	AL/GL			
	17	11'-0 1/8"	8'-2" △		G			3/16" TEMP	14A	14C	14D		14B	AL/GL			
	18	11'-9 1/2"	7'-9 1/2"		G			3/16" TEMP	14A	14C	14D		14B	AL/GL			
	19	11'-9 1/2"	7'-9 1/2"		G			3/16" TEMP	14A	14C	14D		14B	AL/GL			

DOOR TYPES





REV.	DATE	DESCRIPTION	BY
△1	12.18.78	BLDG DEPT. CORRECTIONS	KS
△2	11.27.78		KS
△1	11.20.78	BLDG DEPT CORRECTIONS	KS
△7	7/15/80	CHANGED DOOR HEIGHTS TO MEET REVISED 1ST FLR ELEV	HGS
△3	6.22.79	D.L.U. REVISIONS	A.A.

REVISIONS

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1815 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

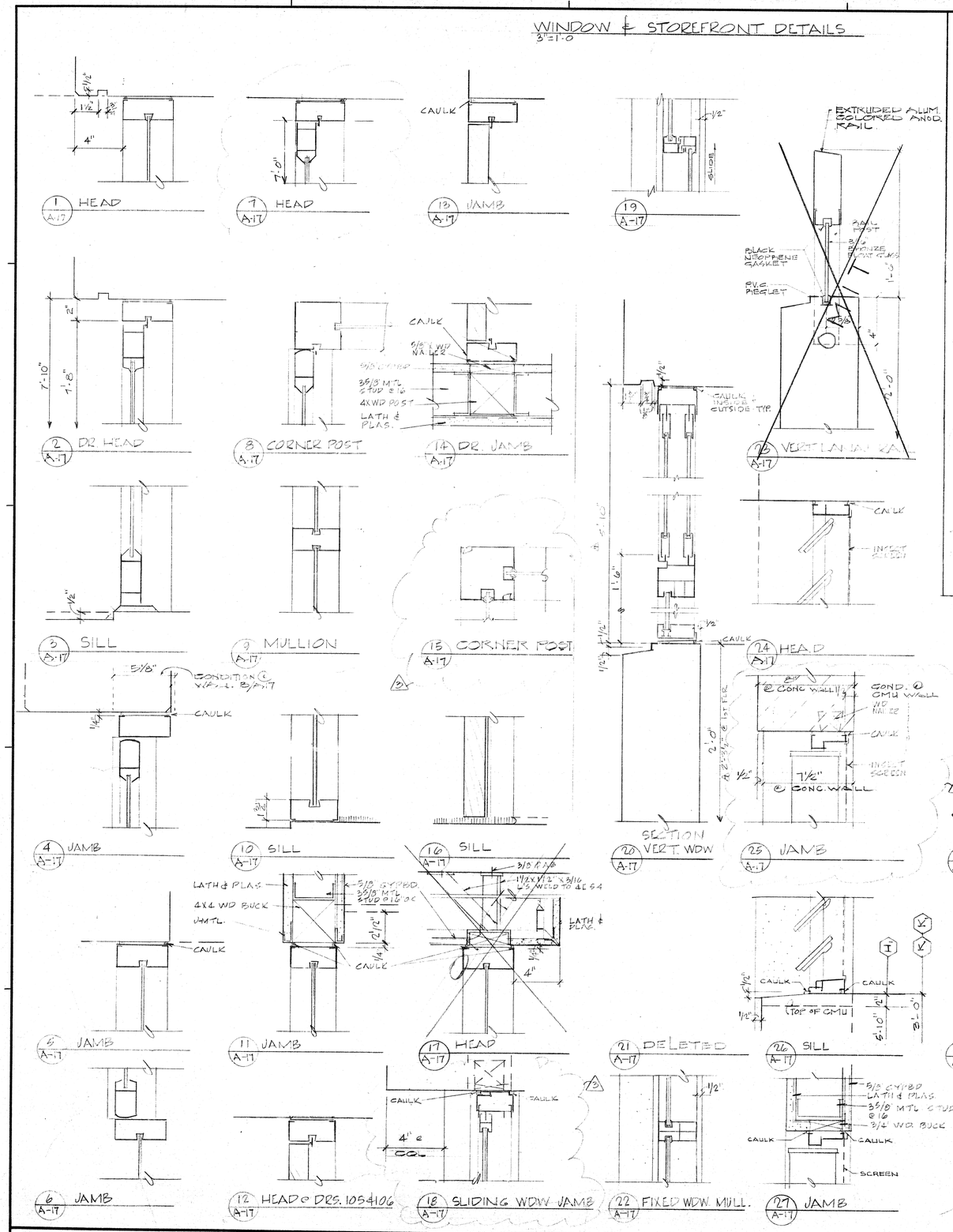
Jack C. Lipman

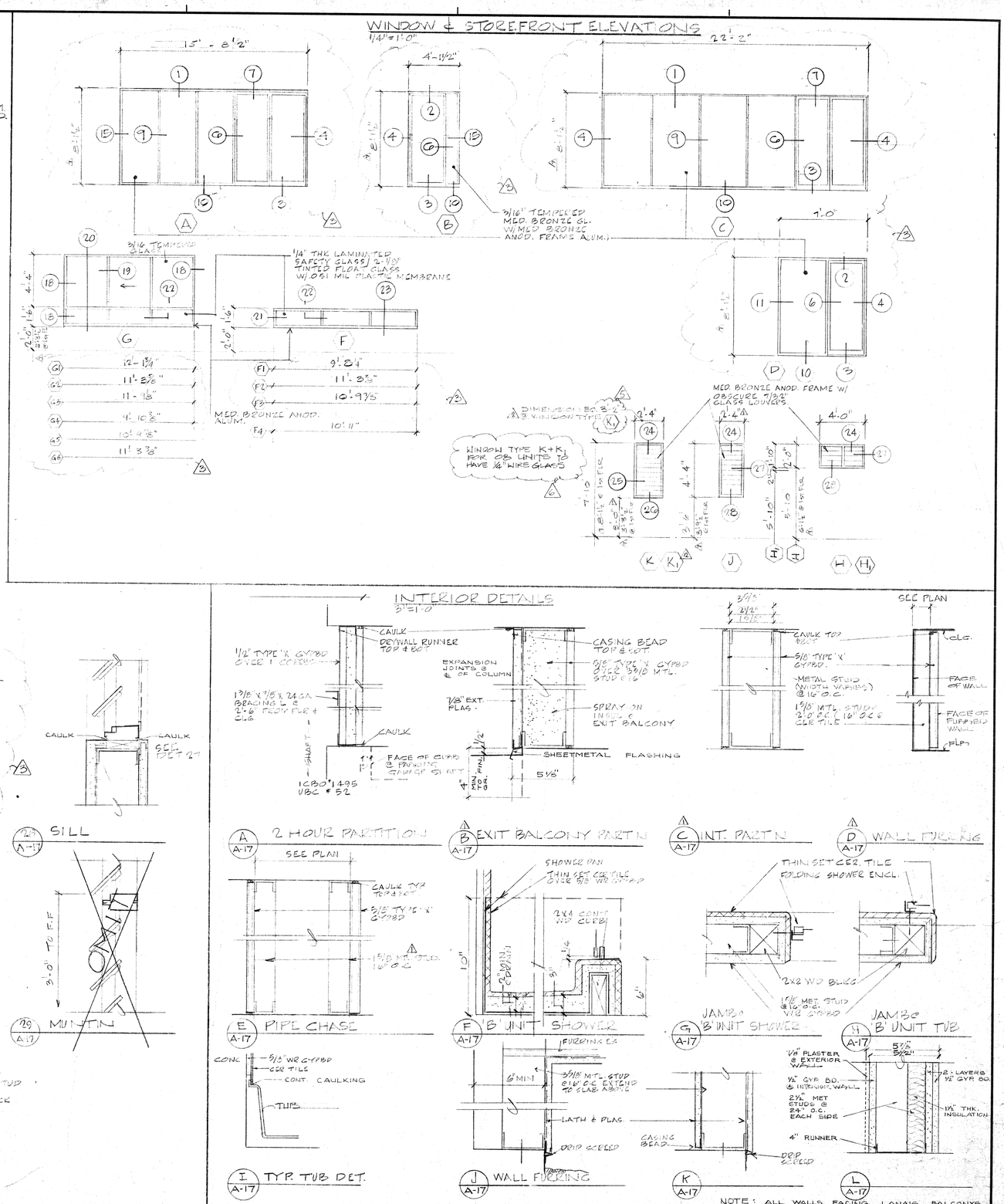
DMJM
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	DOOR SCHEDULE & DETAILS
DRAWN BY	
CHECKED BY	
DATE 10.16.78	PROJECT NO. 3707-10-3
SHEET NO.	A-16
OF SHEETS	


WINDOW & STOREFRONT DETAILS


WINDOW & STOREFRONT ELEVATIONS

NOTE: ALL WALLS FACING LANAIS, BALCONYS & EXTERIOR TO BE 7/8" THK. METAL LATH & PLASTER

REVISIONS							
1	12-18-78	BLDG. DEPT. CORRECTIONS	KG	7	7/15/80	CHANGED HEIGHTS TO MEET REVISED 1st FLR ELEV.	HGS
2	11-27-78		KG	6	9-17-79	BLDG. DEPT. COMMENTS	KH
1	11-20-78	BLDG. DEPT. CORRECTIONS	KG	5	8-24-79	BLDG. DEPT. COMMENTS.	KH
REV.	DATE	DESCRIPTION	BY	3	6-22-79	D.L.U. REVISIONS	

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1815 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

Jack C. Lipman

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII

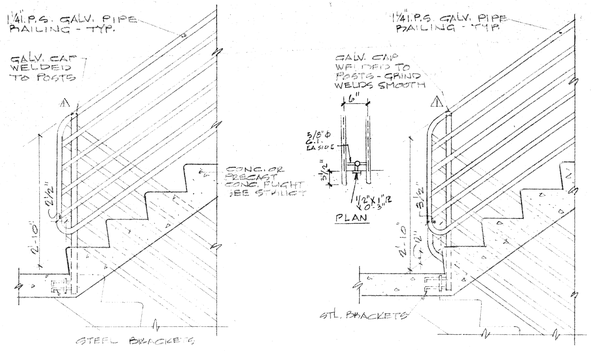
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING ∫ ARCHITECTURE ∫ ENGINEERING ∫ SYSTEMS

THE BEL AIR PLAZA

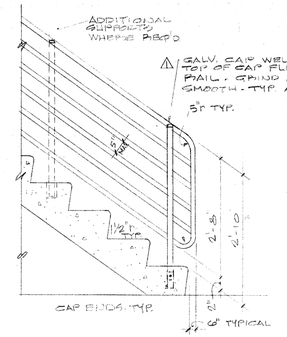
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	WINDOW & STOREFRONT ELEVATIONS & DETAILS & INTERIOR DETAILS
DRAWN BY KW	SHEET NO. A-17
CHECKED BY	
DATE 10-16-78	PROJECT NO. 3707-10-3
	OF 20 SHEETS

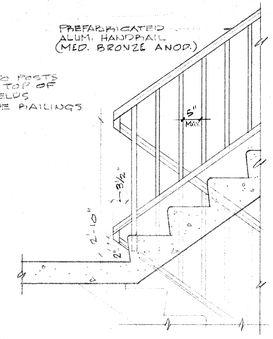


6 A-18 OFFSET TREADS
SCALE: 3/4" = 1'-0"

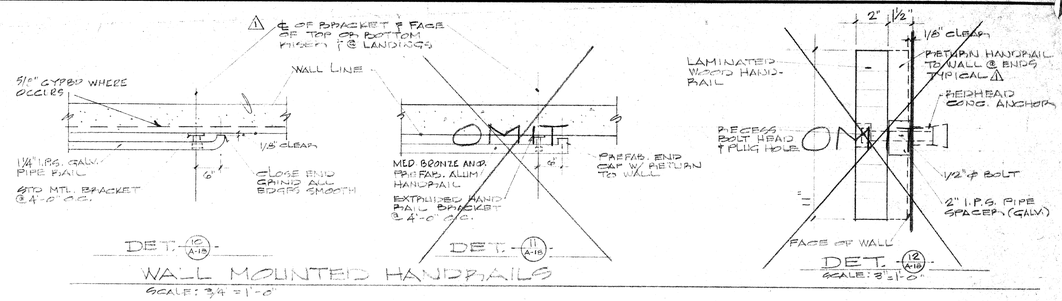
7 A-18 STRAIGHT TREADS
SCALE: 3/4" = 1'-0"

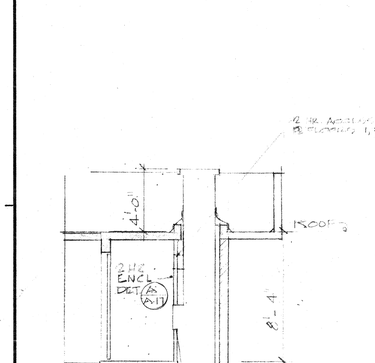


8 A-18 BOTTOM LANDING
SCALE: 3/4" = 1'-0"



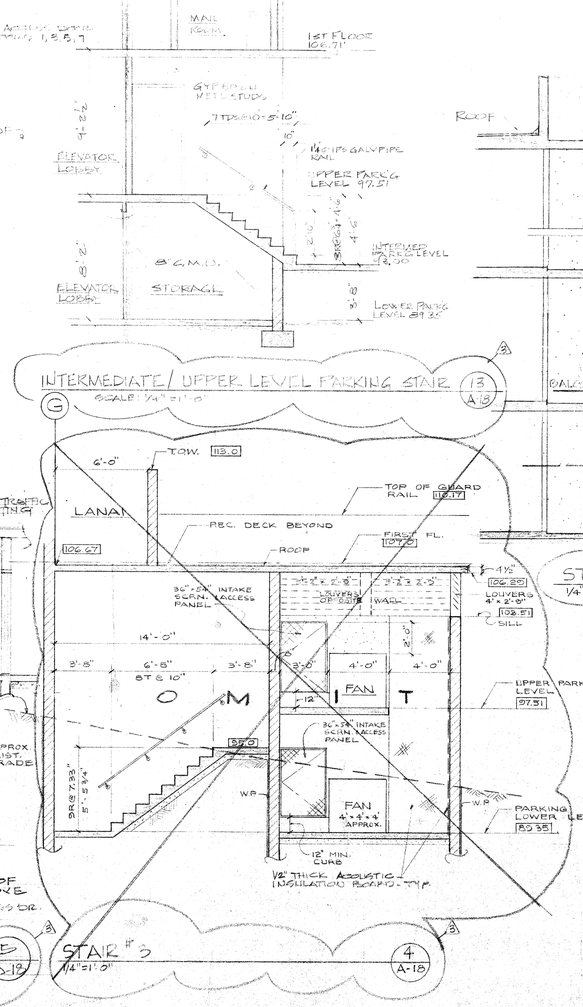
9 A-18 STRAIGHT TREADS
SCALE: 3/4" = 1'-0"

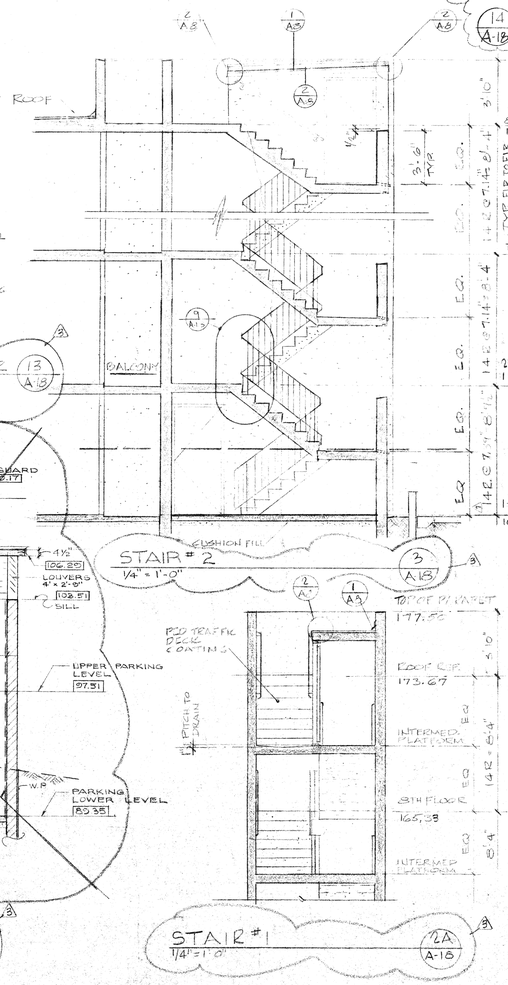


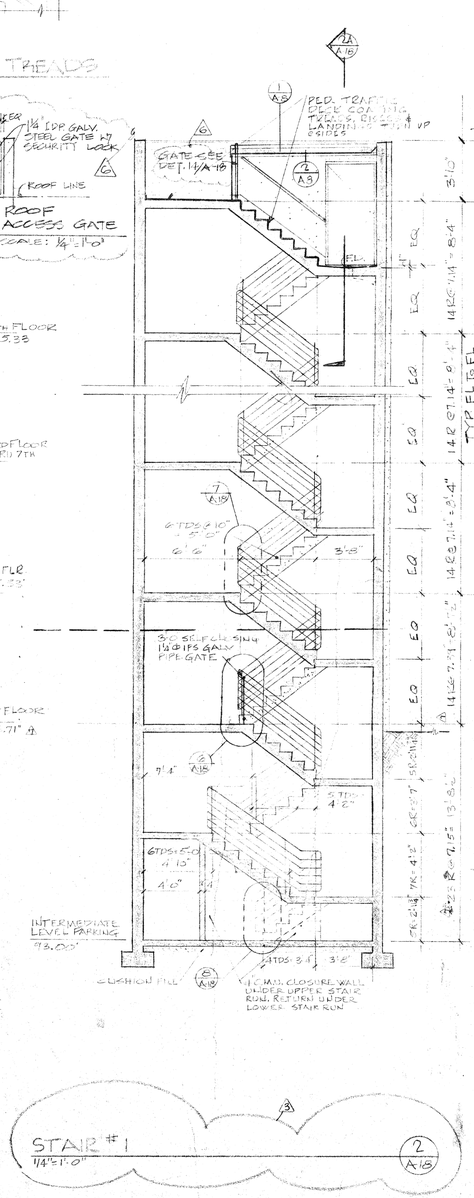


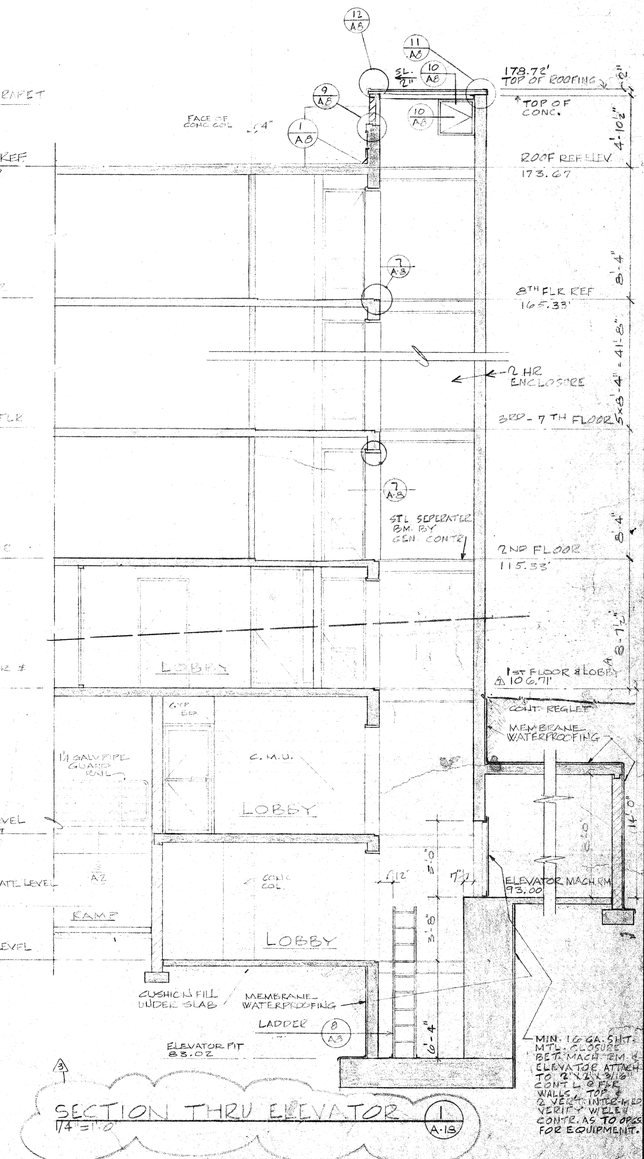
TRASH CHUTE PLAN B A-12
1/4" = 1'-0"

A A-18 SECTION
1" = 1'-0"









SECTION THRU ELEVATOR 1 A-18
1/4" = 1'-0"

REVISIONS			
6	9-17-79	BLDG. DEPT. COMMENTS	KH
5	6-22-79	DLU REVISIONS	TK
4	11-20-78	BLDG. DEPT. CORRECTIONS	KS
REV.	DATE	DESCRIPTION	BY
1	7/15/80	REVISED 1st FLR ELEV.	HGS

JACK C. LIPMAN REGISTERED PROFESSIONAL ARCHITECT No. 1515 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

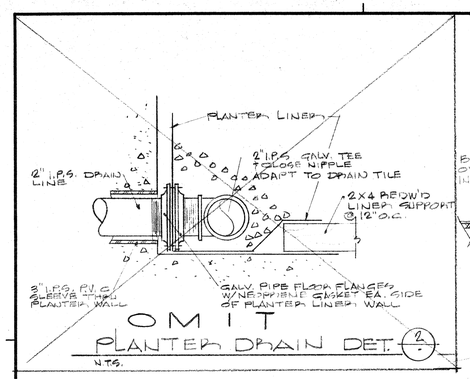
THE BEL AIR PLAZA

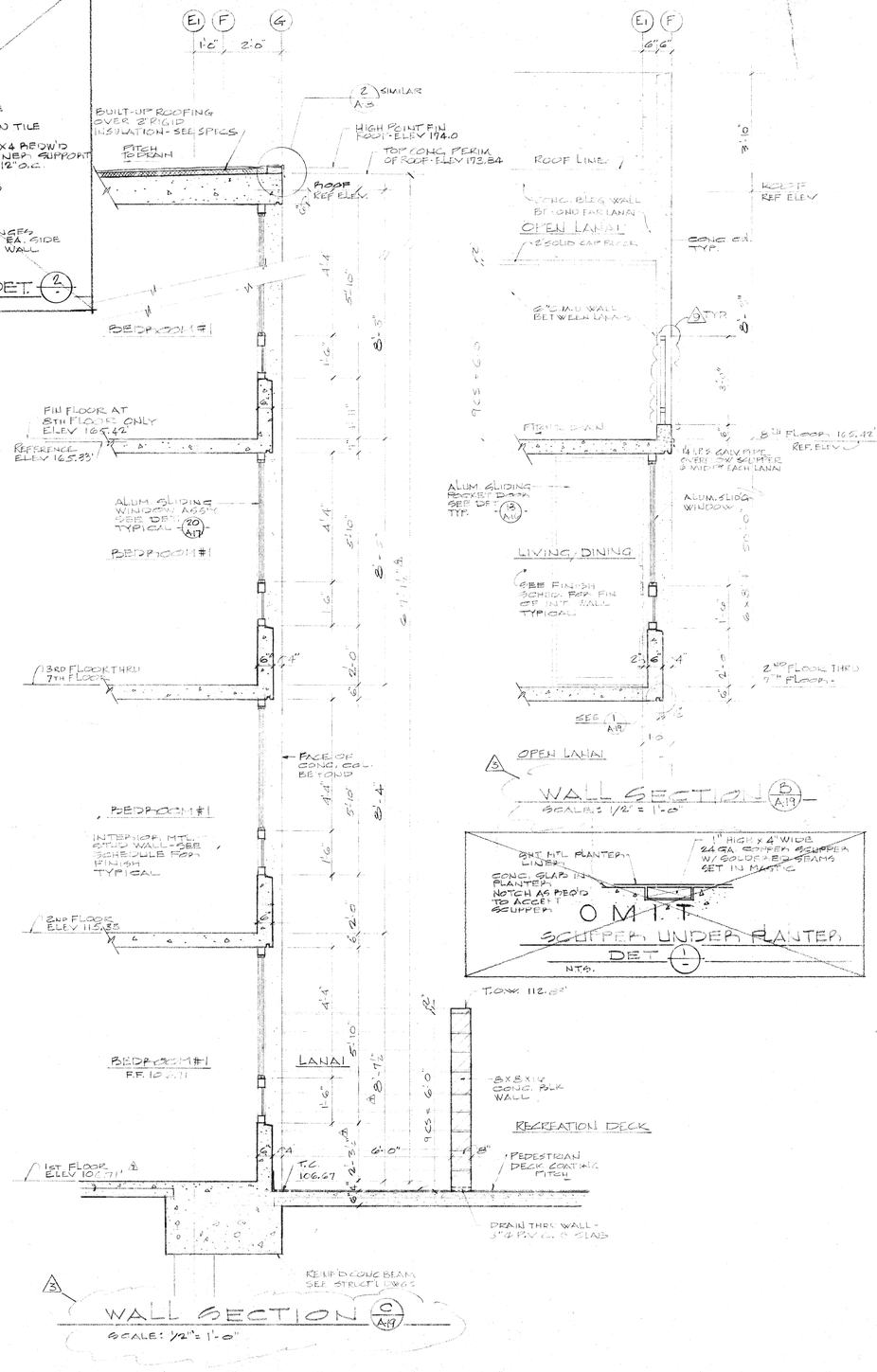
1054 GREEN ST., HONOLULU, HAWAII

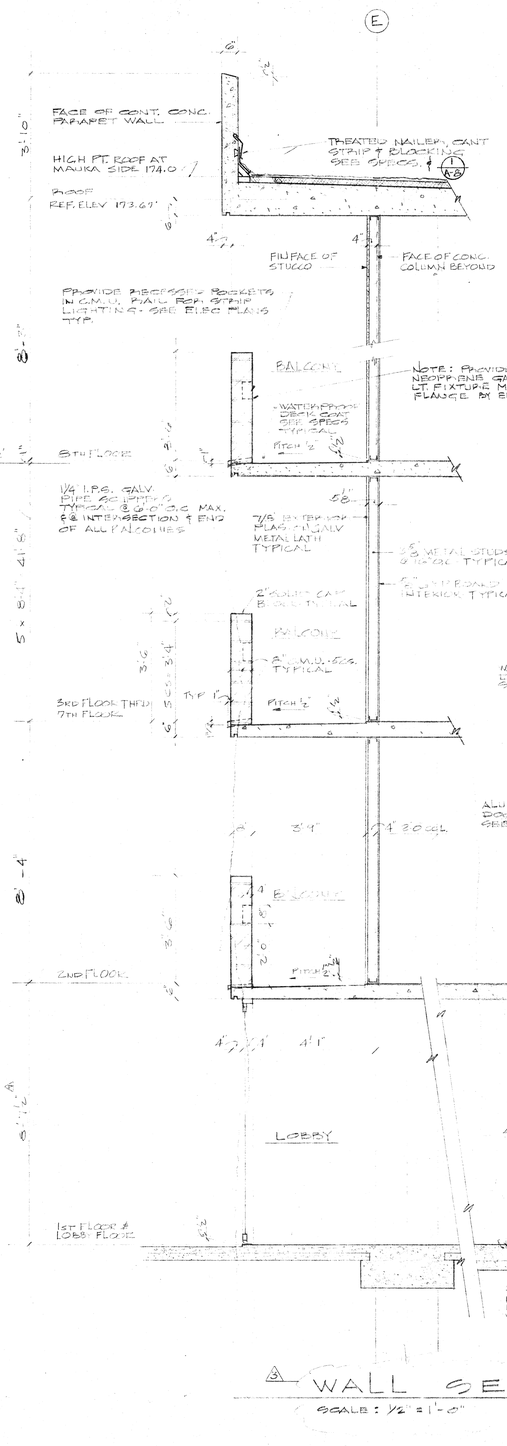
DESIGNED BY	KW HGS
DRAWN BY	
CHECKED BY	
DATE	12-10-78
PROJECT NO.	8727-1A-3

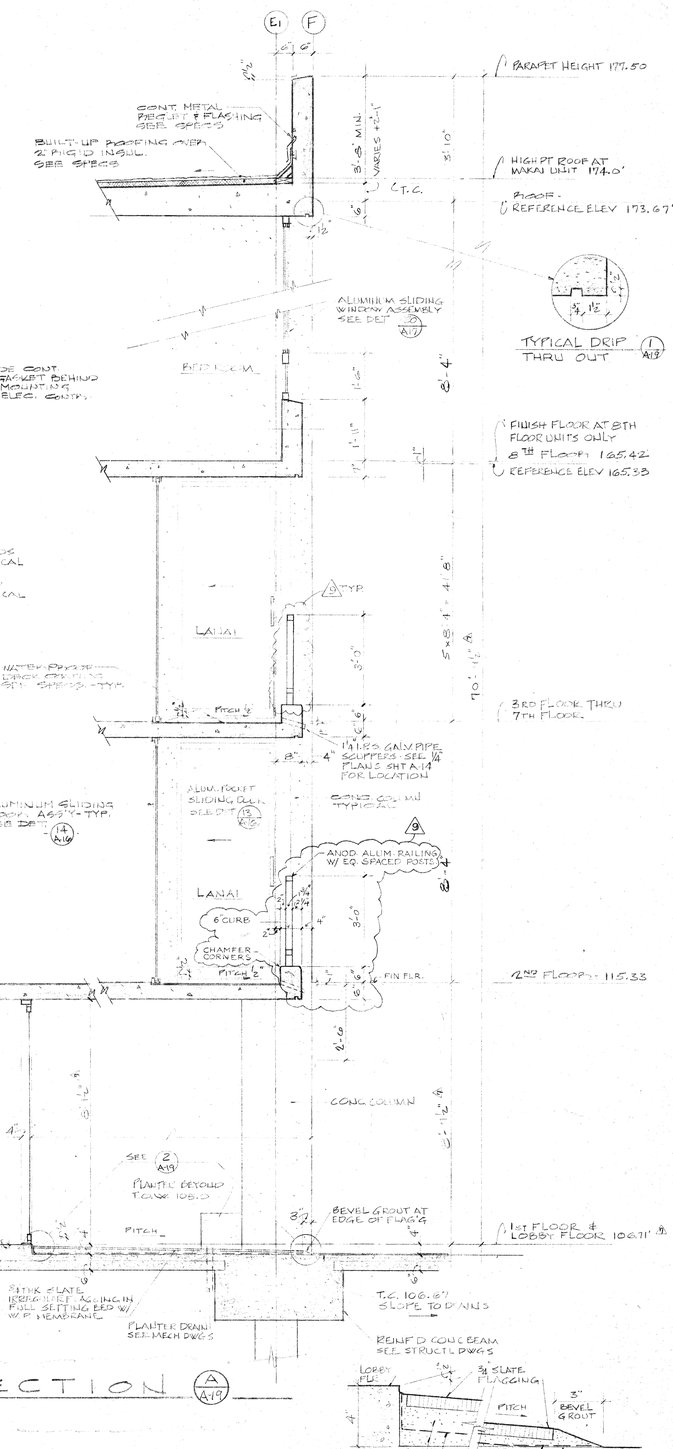
STAIR/ELEVATOR SECTIONS & DETAILS

SHEET NO. A-18 OF SHEETS









REVISIONS			
REV.	DATE	DESCRIPTION	BY
4	7/15/80	REVISED 1ST FLOOR ELEV.	HGS
3	6/27/79	D.L.U. REVISIONS	HGS
2	11/20/78	BLDG. DEPT. CORRECTIONS	KK
1			
9	8/29/80	LANAI CURB & RAILING	ABP

JACK C. LEMMON REGISTERED PROFESSIONAL ARCHITECT No. 1215 HAWAII, U.S.A.

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Jack C. Lemmon

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII

WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

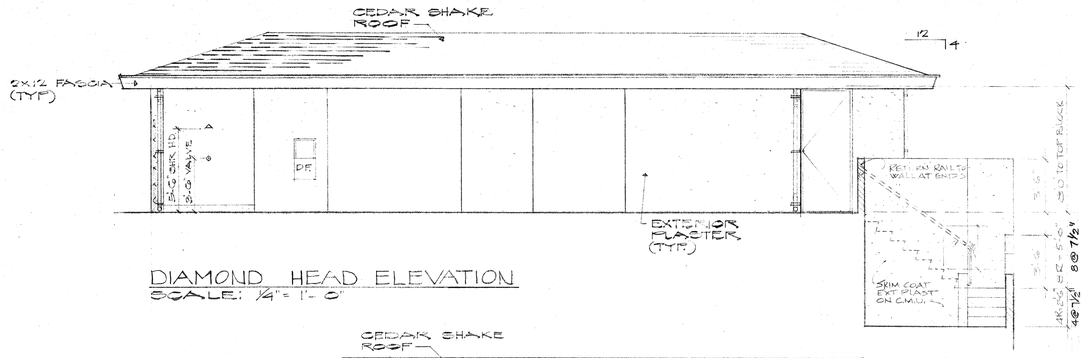
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

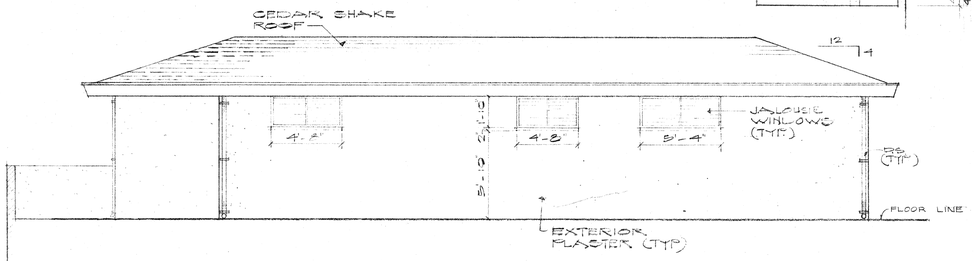
DESIGNED BY	
DRAWN BY	K.S.
CHECKED BY	
DATE	10-16-78
PROJECT NO.	3707-10-3

WALL SECTIONS

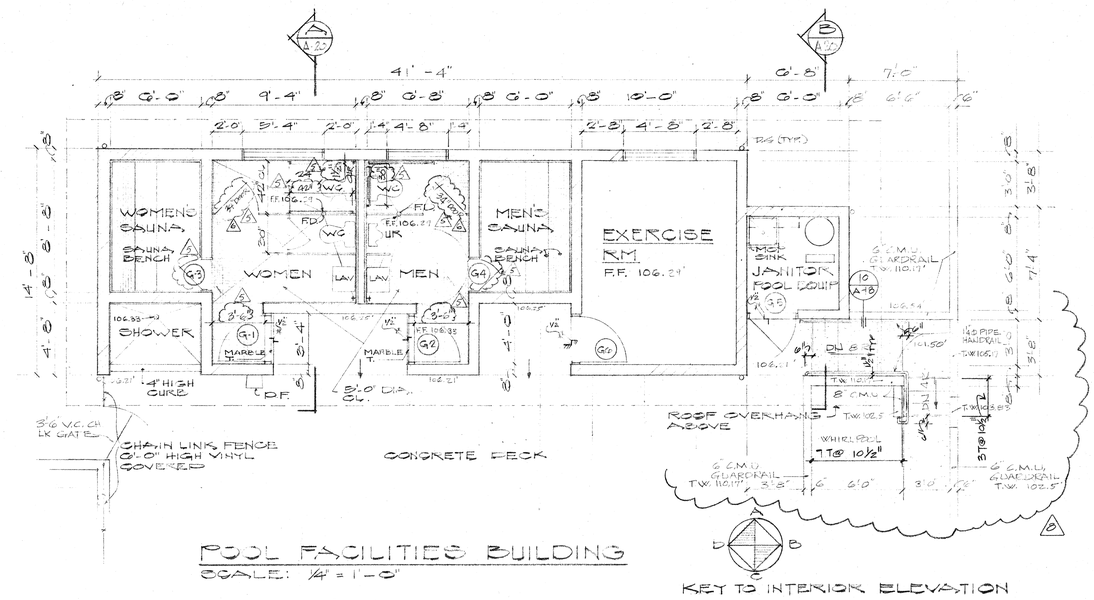
SHEET NO. A-19 OF SHEETS



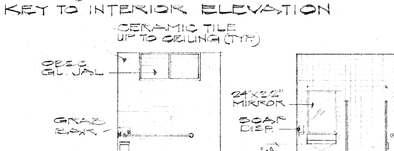
DIAMOND HEAD ELEVATION
SCALE: 1/4" = 1'-0"



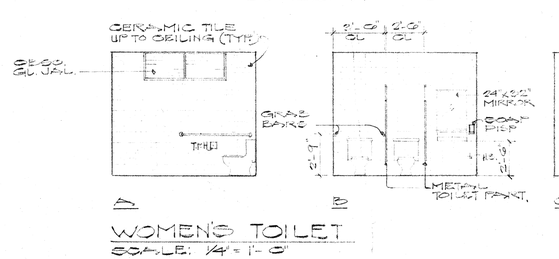
EWA ELEVATION
SCALE: 1/4" = 1'-0"



POOL FACILITIES BUILDING
SCALE: 1/4" = 1'-0"

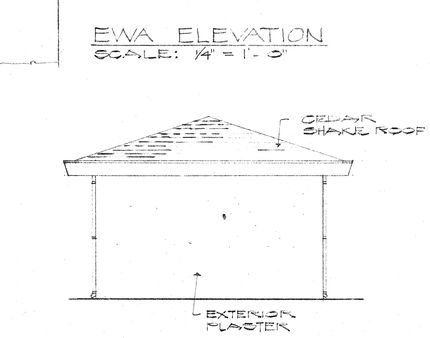


KEY TO INTERIOR ELEVATION

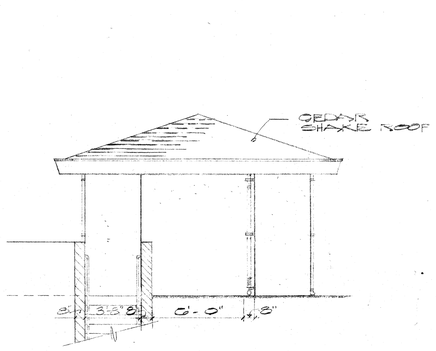


WOMEN'S TOILET
SCALE: 1/4" = 1'-0"

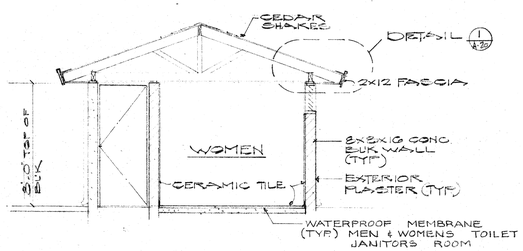
MEN'S TOILET
SCALE: 1/4" = 1'-0"



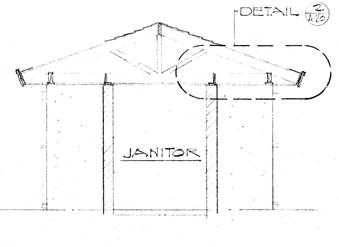
MAKAI ELEVATION
SCALE: 1/4" = 1'-0"



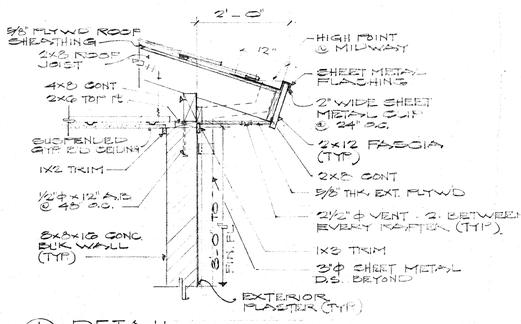
MAUKA ELEVATION
SCALE: 1/4" = 1'-0"



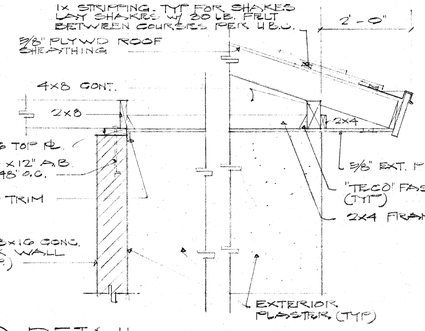
A/A-20 SECTION
SCALE: 1/4" = 1'-0"



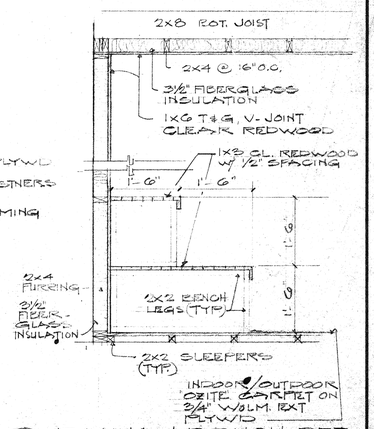
B/A-20 SECTION
SCALE: 1/4" = 1'-0"



1/A-20 DETAIL
SCALE: 2/4" = 1'-0"



2/A-20 DETAIL
SCALE: 2/4" = 1'-0"



3/A-20 SAUNA & BENCH DET
SCALE: 3/4" = 1'-0"

REVISIONS			
REV.	DATE	DESCRIPTION	BY
6	9-17-79	BLDG. DEPT. COMMENTS	KH
5	8-24-79	BLDG. DEPT. COMMENTS -	KH
4	6-22-79	DLU REVISIONS	TK
3	7/31/80	AS BUILT NOTATION TO STATE	W.
2	7/15/80	POOL REVISIONS	MS

ROBERT W. FEARN REGISTERED PROFESSIONAL ARCHITECT NO. 4879 HAWAII, U.S.A.

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DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	14 MAR 79
PROJECT NO.	3707-10-3
SHEET NO.	A-20
OF	SHEETS

B
POOL FACILITIES BLDG

GENERAL NOTES

I. GENERAL:

A. ALL WORK SHALL CONFORM TO THE BUILDING CODE OF THE CITY AND COUNTY OF HONOLULU AND THE MINIMUM STANDARDS OF THE 1976 UNIFORM BUILDING CODE AND THE AMERICAN CONCRETE INSTITUTE STANDARD ACI 318-77.

B. THE CONTRACTOR SHALL VERIFY ALL CONTRACT DOCUMENTS, SITE DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES.

II. CONCRETE:

A. MINIMUM CONCRETE STRENGTHS: ACI 318-77, CHAPTER 4 (USD METHOD).

1. POURED IN PLACE CONCRETE AT 28 DAYS:
   - A. FOUNDATION . . . . . 4000 PSI
   - B. WALLS AND COLUMNS . . . . . 4000 PSI
   - C. MESH REINFORCED SLABS ON GRADE . . . . . 3000 PSI
   - D. SLABS AND BEAMS . . . . . 4000 PSI
2. PRECAST, PRESTRESSED CONCRETE:
   - A. AT STRESS . . . . . 4000 PSI
   - B. AT 28 DAYS . . . . . 6000 PSI
3. 3/4" TOP SIZE AGGREGATE SHALL BE USED IN ALL WALLS, COLUMNS, BEAMS AND TOPPINGS. 1" TOP SIZE AGGREGATE SHALL BE USED IN SLABS AND FOUNDATIONS.

B. REINFORCEMENT:

1. ALL REINFORCING BARS SHALL BE DEFORMED HIGH STRENGTH STEEL CONFORMING TO ASTM A15-70A, GRADE 60.
2. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE MANUAL OF STANDARD PRACTICE.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185-73
4. PRESTRESSING WIRES AND STRANDS SHALL CONFORM TO ASTM A416-74

C. CONCRETE PROTECTION FOR REINFORCEMENT:

1. FOOTINGS AND SLAB ON GRADE . . . . . 3"
2. CONCRETE EXPOSED TO WEATHER OR GROUND (FORMED) . . . . . 2"
3. SLABS AND WALLS (PROTECTED) . . . . . 3/4"
4. BEAMS AND COLUMNS (PROTECTED) . . . . . 1-1/2"

D. SPLICES IN REINFORCEMENT:

1. LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE.
2. UNLESS SHOWN OTHERWISE, MINIMUM LAP DISTANCES SHALL BE 36 BAR DIAMETERS.
3. UNLESS SHOWN OTHERWISE ON PLANS, SPLICES WILL BE ALLOWED ONLY AT LOCATIONS INDICATED BELOW:
   - A. SUSPENDED BEAMS: TOP BARS AT MIDSPAN, BOTTOM BARS AT SUPPORTS, BENT BARS AT BEND POINTS.
   - B. FOOTINGS, GRADE BEAMS, AND STRUCTURAL SLAB ON GRADE: TOP BARS AT SUPPORTS AND BOTTOM BARS AT MIDSPAN.
   - C. WALLS SUBJECTED TO EXTERNAL SOIL AND WATER PRESSURE: OUTSIDE BARS AT MID-SPAN, INSIDE BARS AT SUPPORTS.

E. MINIMUM CONCRETE WALL REINFORCING:

1. 6" & 7" #4 @ 12" EW
2. 8" #4 @ 12" VERTICAL AND #4 @ 10" HORIZONTAL
3. 10" #4 @ 16" EW EF
4. 12" #4 @ 12" EW EF

F. POST-TENSIONED PRESTRESSED CONCRETE:

1. POST-TENSIONING WORK SHALL BE PERFORMED BY AN EXPERIENCED CONTRACTOR UTILIZING A RECOGNIZED POST TENSIONING SYSTEM APPROVED BY THE ENGINEER. DESIGN AND CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-77.
2. SHOP DRAWINGS AND CALCULATIONS WHERE REQUIRED SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW.
3. TENDONS SHOWN AS DRAPED SHALL BE DRAPED TO APPROXIMATE A PARABOLIC PROFILE AND SHALL CONFORM TO CONTROL POINTS SHOWN. TENDONS SHOWN STRAIGHT SHALL BE PLACED STRAIGHT. CONTROL POINTS INDICATED ARE MEASURED FROM BOTTOM OF SLAB TO CENTER OF GRAVITY OF TENDONS OR GROUP OF TENDONS. CONTROL POINTS ARE GENERALLY LOCATED AT SUPPORTS AND AT MIDSPAN. FOR CANTILEVER CONDITIONS, CONTROL POINTS ARE LOCATED AT ENDS AND SUPPORT POINTS.
4. FORCES SHOWN ON PLANS AND DETAILS ARE EFFECTIVE FORCES (Fe) AFTER ALL LOSSES.
5. MAXIMUM TENDON SIZE SHALL BE 1/2" Ø 270K STRAND.
6. MAXIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI AT TRANSFER OF PRESTRESS FORCES TO CONCRETE UNLESS ANCHORAGE OR DESIGN STRESSES REQUIRE A HIGHER VALUE. SHOP DRAWINGS SHALL INDICATE MINIMUM REQUIRED STRENGTHS AT TIME OF TRANSFER OF PRESTRESS FORCES.
7. A MINIMUM OF 2 CONTINUOUS #4 BARS SHALL BE PLACED BEHIND ALL ANCHORAGES. ALL POCKETS, RECESSES, ETC., REQUIRED FOR ANCHORAGE SHALL BE ADEQUATELY REINFORCED.
8. ALL POCKETS SHALL BE WATERPROOFED AND GROUTED.

III. STRUCTURAL STEEL:

A. STRUCTURAL STEEL ACCORDING TO A.I.S.C. SPECIFICATION, DATED FEB. 12, 1969 AND A.I.S.C. CODE OF STANDARD PRACTICE DATED JULY 1, 1970.
B. ROLLED SHAPES AND PLATES: ASTM A36-75(FY= 36,000 PSI).
C. BOLTS; ASTM A-307.
D. WELDS A-36, CLASS E-70 OR AWS-A5I, ALL IN ACCORDANCE WITH AWS RECOMMENDATION.

IV. CONCRETE MASONRY:

A. CONCRETE MASONRY UNITS SHALL BE IN ACCORDANCE WITH ASTM C-90, GRADE "A" LOAD BEARING.
B. CELLS AND BOND BEAM UNITS CONTAINING REINFORCING SHALL BE FILLED WITH GROUT HAVING A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
C. MORTAR SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 2000 PSI.
D. SPLICE LENGTH SHALL BE 48 BAR DIAMETERS BUT MINIMUM 2'-0".
E. GROUT SOLID ALL CELLS BELOW GRADE.
F. MINIMUM CONCRETE MASONRY REINFORCING:

1. VERTICAL: #4 @ 24" AND @ CORNERS, ENDS AND JAMS.
2. HORIZONTAL: DUR-O-WALL @ 24" AND 2 #4 IN BOND BEAM UNITS @ 48" AND TOP OF WALLS.

V. FOUNDATIONS:

A. FOR ALLOWABLE SOIL BEARING VALUES SEE FOUNDATION INVESTIGATION BY HARDING-LAWSON ASSOCIATES DATED NOV. 1, 1978.

VI. BACKFILL AND SLAB CUSHION:

A. FILL AND BACKFILL MATERIAL SHALL CONSIST OF 3⅜ FINE, SITE MATERIAL FREE OF DELETERIOUS MATERIALS AND LARGE BOULDERS, OR APPROVED EQUAL.
B. FILL AND BACKFILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND MECHANICALLY COMPACTED TO 95% OF RELATIVE COMPACTION, ASTM D-1557-70(C) MAXIMUM DRY DENSITY.
C. A 4" LAYER OF 3⅜ FINE SHALL BE PLACED UNDER ALL SLABS ON GRADE.

VII. CONSTRUCTION NOTES:

A. CONSTRUCTION JOINTS NOT INDICATED ON THE PLANS SHALL BE MADE SO AS LEAST TO IMPAIR THE STRENGTH OF THE STRUCTURE AND ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
B. MESH REINFORCED SLABS ON GRADE SHALL HAVE CONTROL JOINTS AT 20'-0" MAXIMUM CENTER TO CENTER FORMED WITH "KEYKOLD" OR APPROVED EQUAL.
C. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE STARTING TIME OF EACH CONCRETE POUR AT LEAST 24 HOURS IN ADVANCE.
D. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OPENINGS, INSERTS AND OTHER DETAILS NOT SHOWN.
E. CAMBER SLABS AND BEAMS 1/4" FOR EACH 14 FEET OF SPAN OR AS DIRECTED BY ARCHITECT.

VIII. DESIGN NOTES:

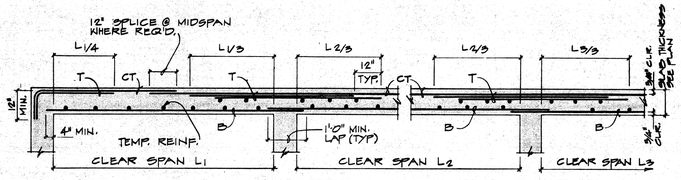
A. LIVE LOAD AND PARTITION ALLOWANCE;

1. ROOF . . . . . 30 PSF INCLUDING ROOFING
2. PARKING . . . . . 50 PSF
3. FLOORS . . . . . 40 PSF + 20 PSF PARTITIONS
4. CORRIDORS AND STAIRS . . . . . .100 PSF
5. MECHANICAL EQUIPMENT ROOMS . . . . . .200 PSF
6. FIRST FLOOR (PLANTING AREAS) FILL + LIVE LOAD. . . . . .230 PSF
7. FIRST FLOOR (LOBBY AREA) FILL + LIVE LOAD . . . . . .280 PSF

B. WIND . . . . . 15, 20, 25 PSF
C. EARTHQUAKE ZONE . . . . . 1976 UBC ZONE 1

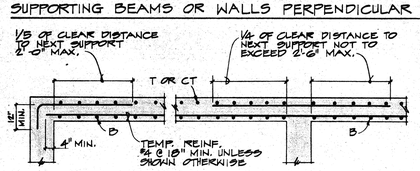
IX. MISCELLANEOUS:

A. WHEREVER SPECIFIC DETAILS ARE NOT SHOWN, USE DETAILS FOR SIMILAR CONDITIONS SHOWN.



EXT. SUPPORT | 1ST. INT. SUPPORT | OTHER INT. SUPPORTS

SUPPORTING BEAMS OR WALLS PERPENDICULAR TO MAIN REINFORCEMENT

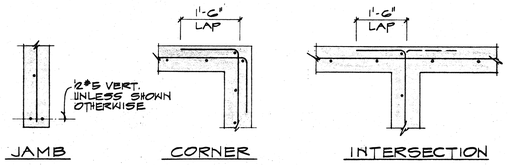


NOTES:
1. "B" BARS ARE BOTTOM BARS.
2. "T" BARS ARE ADDED TOP BARS OVER THE SUPPORT OF THE SLAB.
3. "CT" BARS ARE CONTINUOUS TOP BARS EXTENDING OVER BOTH SLAB SUPPORTS.
4. SEE PLANS FOR SIZE AND LOCATION OF SLAB REINFORCING.

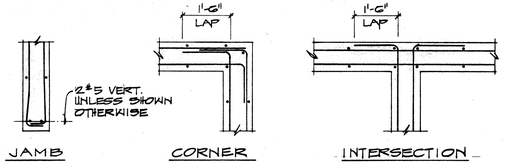
EXT. SUPPORT | INTERIOR

BEAM OR WALLS PARALLEL TO MAIN REINFORCEMENT

(1) TYPICAL CONCRETE SLAB DETAILS
NOT TO SCALE



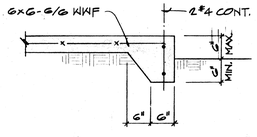
SINGLE LAYER REINFORCEMENT



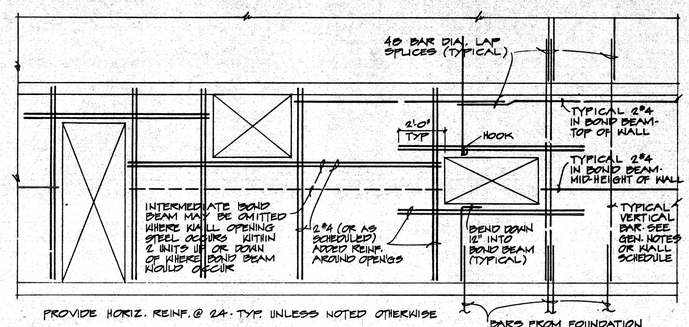
DOUBLE LAYER REINFORCEMENT

NOTE: SEE GENERAL NOTES AND WALL SCHEDULE FOR REINFORCING.

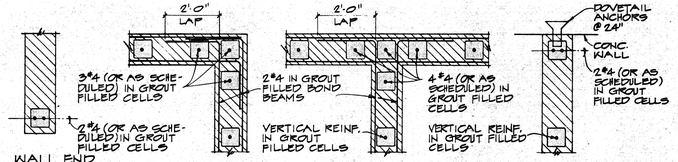
(6) CONCRETE WALL DETAILS
NOT TO SCALE



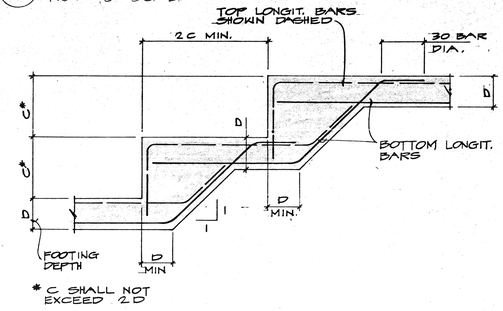
(9) SLAB EDGE SECTION
3/4" = 1'-0"



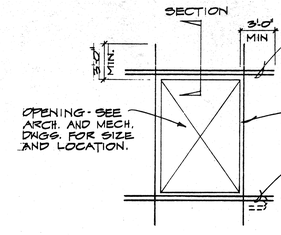
WALL ELEVATION



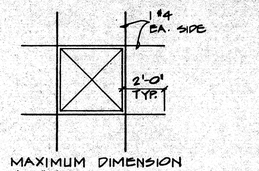
(2) CONCRETE BLOCK WALL DETAILS
NOT TO SCALE

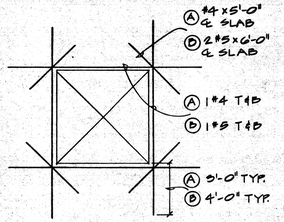


(4) TYPICAL STEP FOOTING DETAIL
NOT TO SCALE



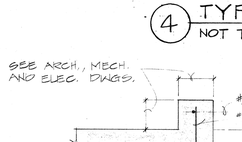
(5) WALL OPENING REINF. DETAIL
NOT TO SCALE



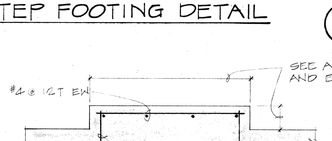


NOTES:
1. OPENING WITH MAXIMUM DIMENSION LESS THAN 1'-6" REQUIRES NO ADDED REINFORCING.
2. WHERE POSSIBLE MOVE CONTINUOUS BARS SLIGHTLY TO AVOID OPENINGS.
3. POST-TENSIONING STRANDS SHALL BE CONTINUOUS AROUND OPENING UNLESS SHOWN OTHERWISE ON FLOOR PLANS.

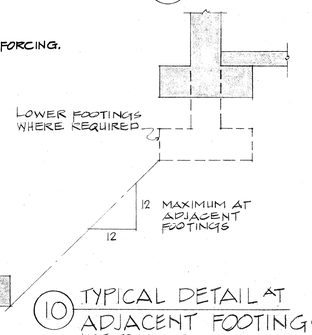
(3) TYP. ADDED REINF. @ POST-TENSIONED SLAB



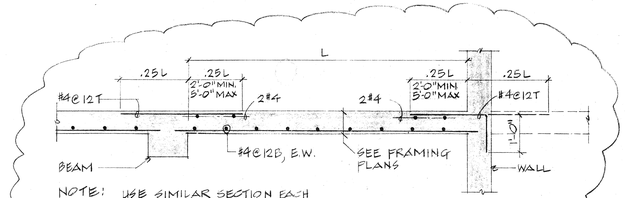
(7) TYPICAL CURB
NOT TO SCALE



(8) TYPICAL CONC. PAD DETAIL
NOT TO SCALE



(10) TYPICAL DETAIL AT ADJACENT FOOTINGS
NOT TO SCALE



(11) TYPICAL POURED IN PLACE SLAB BETWEEN BEAM & WALL
NOT TO SCALE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
2	11/27/78		EK
1	11/20/78	BLDG. DEPT. CORRECTIONS	EK

RICHARD M. PHILLIPS — REGISTERED PROFESSIONAL ENGINEER — No. 1016 — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

Richard M. Phillips

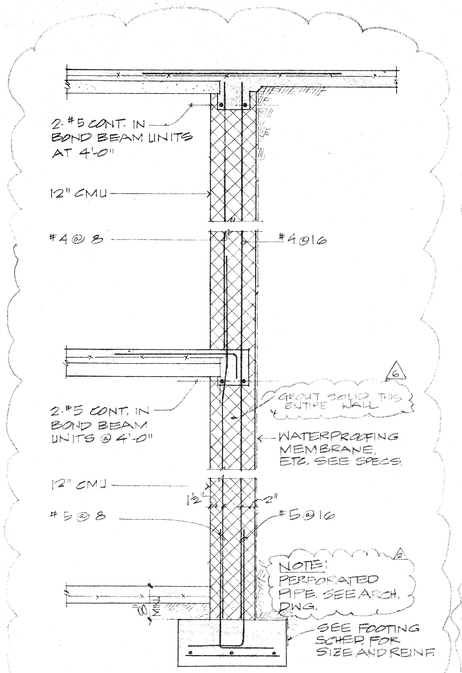
DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

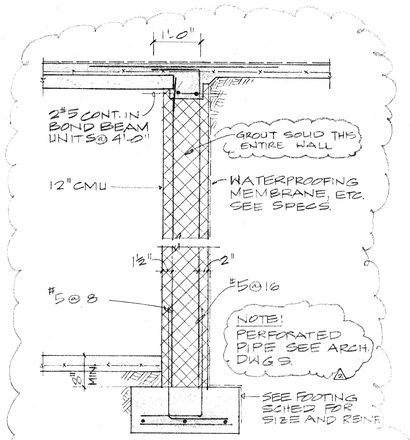
THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	PD
DRAWN BY	
CHECKED BY	RML
DATE	10/16/78
PROJECT NO.	3707-10-3
SHEET NO.	S-1
OF	SHEETS

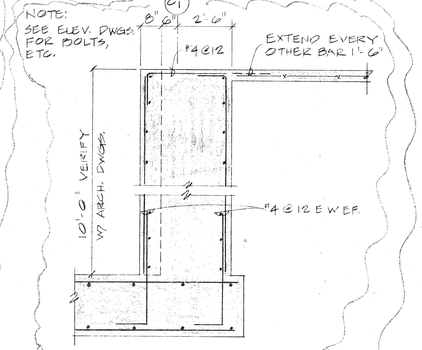
GENERAL NOTES AND TYPICAL DETAILS



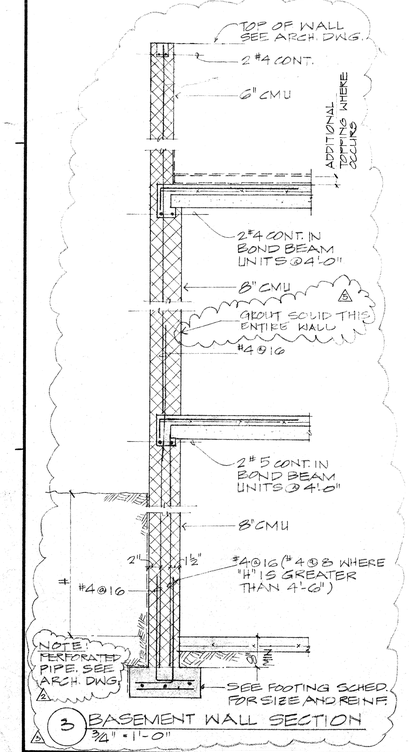
1 BASEMENT WALL SECTION
3/4" = 1'-0"



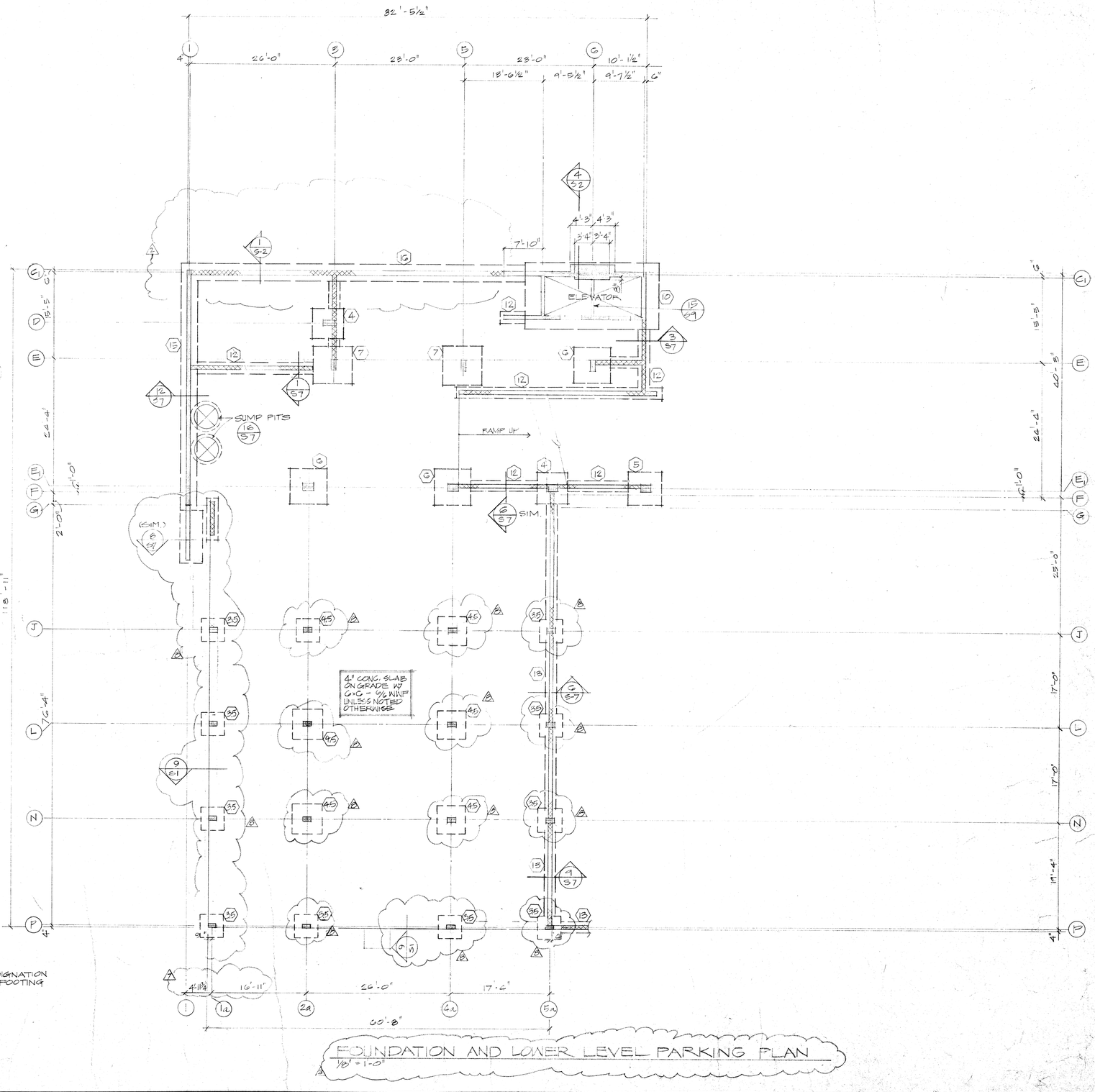
2 BASEMENT WALL SECTION
3/4" = 1'-0"



4 ELEVATOR PIT SECTION



3 BASEMENT WALL SECTION
3/4" = 1'-0"



FOUNDATION AND LOWER LEVEL PARKING PLAN
1/16" = 1'-0"

LEGEND

⬡ DENOTES FOOTING DESIGNATION SEE SHEET S-7 FOR FOOTING SCHEDULE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
A	8-24-77	BLDG. DEPT. COMMENTS	MY
B	6-22-78	DLU REVISIONS	EK
C	11-27-78		EK
A	8-20-80	FOUNDATION REVISIONS	NA
B	7-16-80	GENERAL REVISIONS	NA
C	9-17-79	BLDG. DEPT. COMMENTS	KH

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

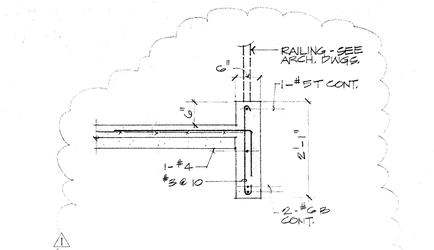
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

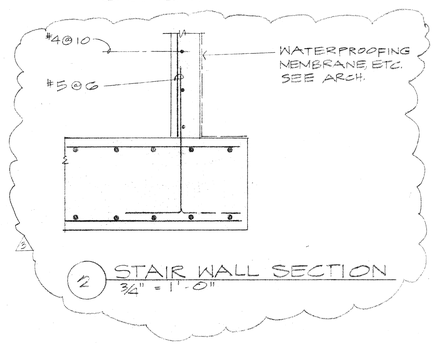
DESIGNED BY	FB
DRAWN BY	
CHECKED BY	RML
DATE	10/16/78
PROJECT NO.	3707-10-3

FOUNDATION / LOWER LEVEL PARKING PLAN

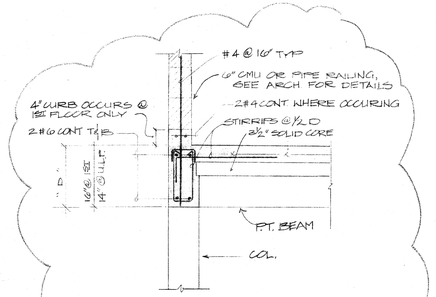
SHEET NO. S-2 OF SHEETS



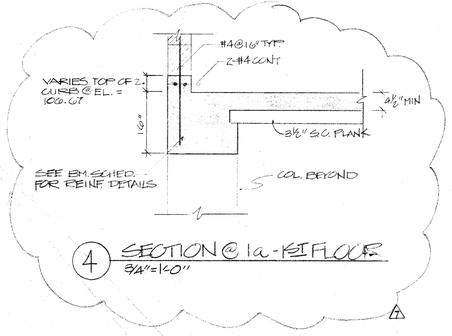
1 CURB SECTION OVER RAMP 3/4" = 1'-0"



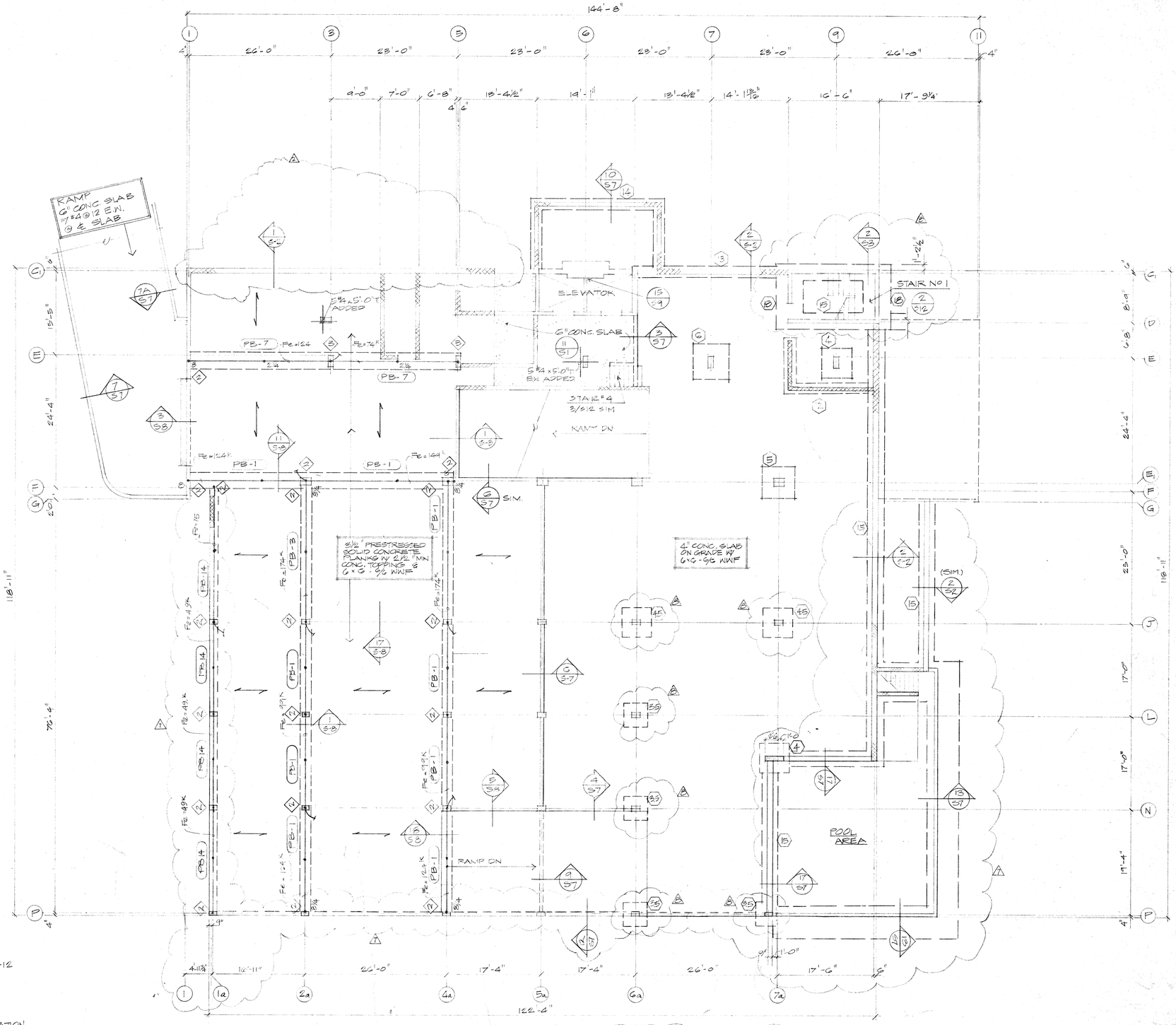
2 STAIR WALL SECTION 3/4" = 1'-0"



3 SECTION @ SPANDREL 3/4" = 1'-0"



4 SECTION @ 1a - 1ST FLOOR 3/4" = 1'-0"



UPPER LEVEL PARKING FRAMING PLAN 1/8" = 1'-0"

LEGEND

- DENOTES DIRECTION OF PRESTRESSED PLANK
- DENOTES BM. DESIGNATION SEE BM. SCHEDULE SHT. S-12
- DENOTES TOP ADDED BM. REINF. (ALL REINF. SHALL BE #8 BARS UNLESS NOTED OTHERWISE
- DENOTES FOOTING DESIGNATION SEE SHEET S-7 FOR FOOTING SCHEDULE

REVISIONS			
6-22-79	DLU REVISIONS	EK
11/27/78		
11/20/78	BLDG. DEPT. CORRECTIONS	EK
REV.	DATE	DESCRIPTION	BY
8-20-80	FOUNDATION REVISIONS	NA
7-16-80	GENERAL REVISIONS	NA

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

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WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

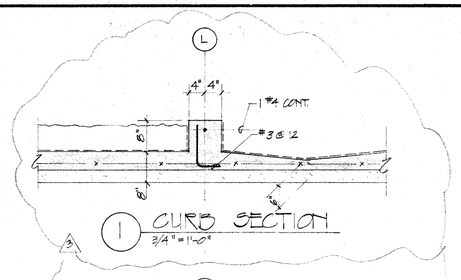
THE BEL AIR PLAZA

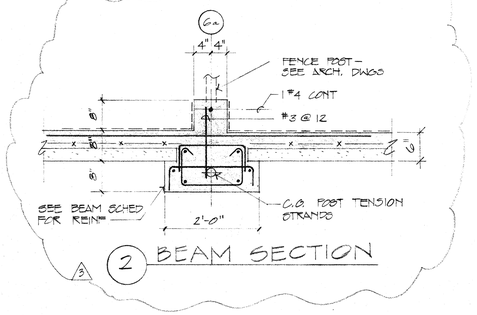
1054 GREEN ST., HONOLULU, HAWAII

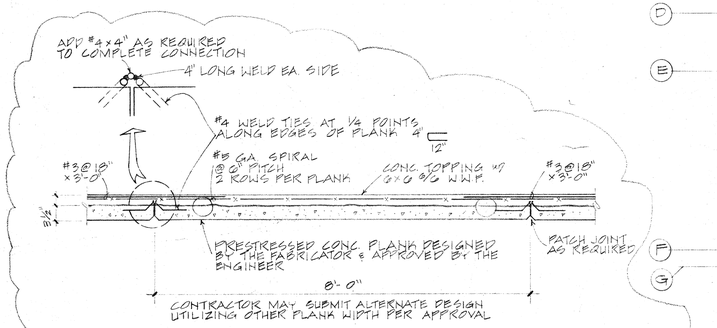
DESIGNED BY	PJP
DRAWN BY	
CHECKED BY	RML
DATE	10/16/78
PROJECT NO.	8707-10-3

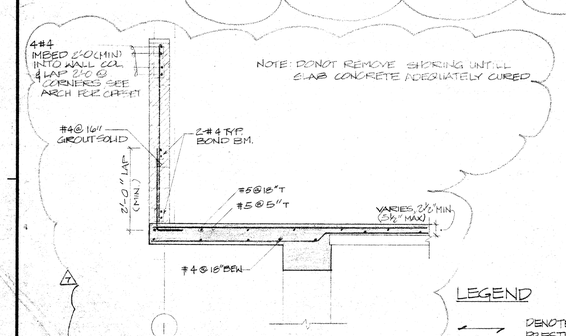
UPPER LEVEL PARKING FRAMING PLAN

SHEET NO. S-3 OF SHEETS



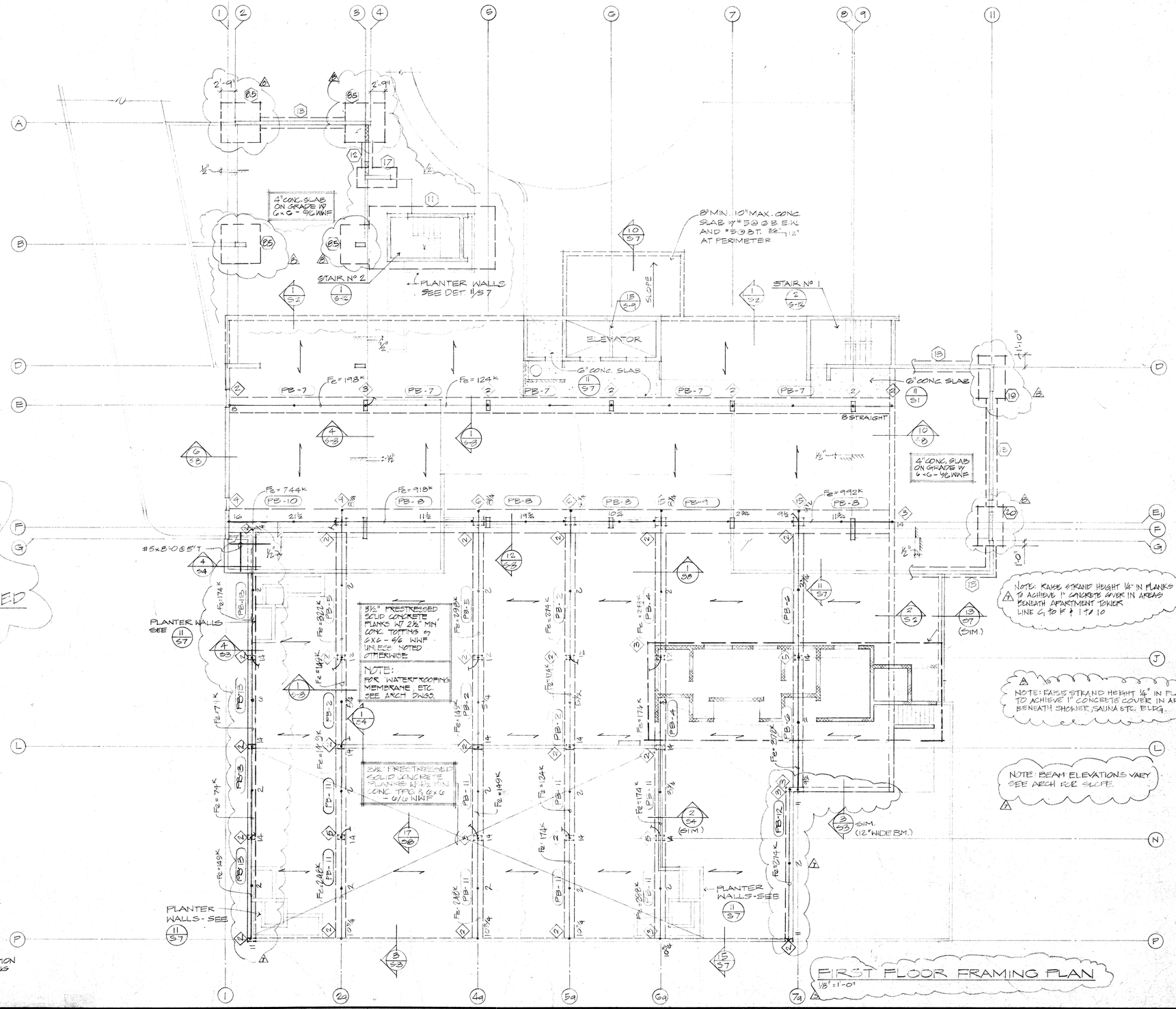






LEGEND

- DENOTES DIRECTION OF PRESTRESSED PLANKS
- DENOTES BM. DESIGNATION SEE BM. SCHEDULE SHT. S-12
- DENOTES TOP ADDED BM. REINF. (ALL REINF. SHALL BE #8 BARS UNLESS NOTED OTHERWISE.
- DENOTES FOOTING DESIGNATION SEE SHEET S-7 FOR FOOTING SCHEDULE.



REV.	DATE	DESCRIPTION	BY
3	6-22-79	DLU REVISIONS	EK
2	11/27/78		EK
1	11/20/78	BLDG. DEPT. CORRECTIONS	EK
4	8-20-80	FOOTING REVISIONS	NA
3	7-16-80	GENERAL REVISIONS	NA
2	8-24-79	BLDG. DEPT. COMMENTS	MKY
1	7-16-80	GENERAL REVISIONS	NA
2	8-24-79	BLDG. DEPT. COMMENTS	MKY

REVISIONS

REGISTERED PROFESSIONAL ENGINEER No. 7014 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

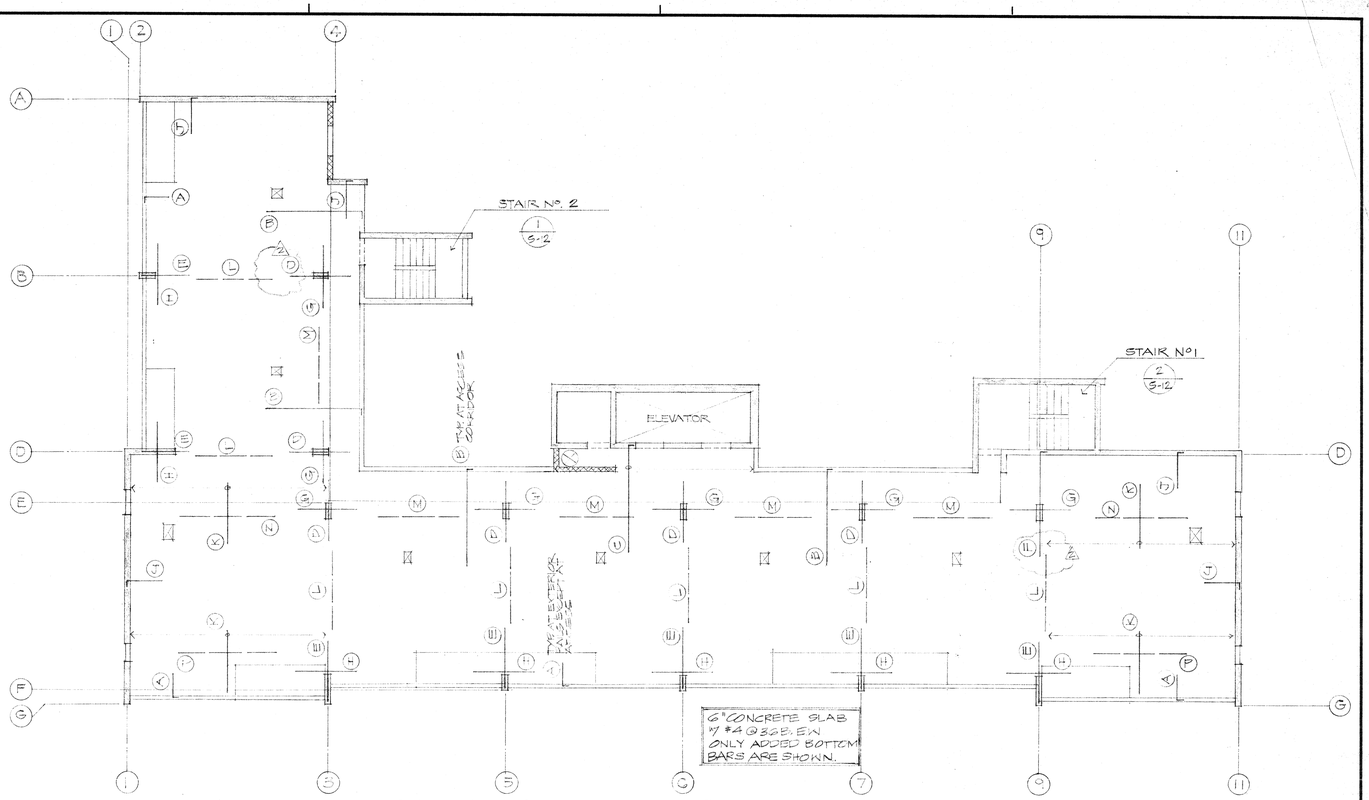
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	PB
DRAWN BY	RML
CHECKED BY	RML
DATE	10/16/78

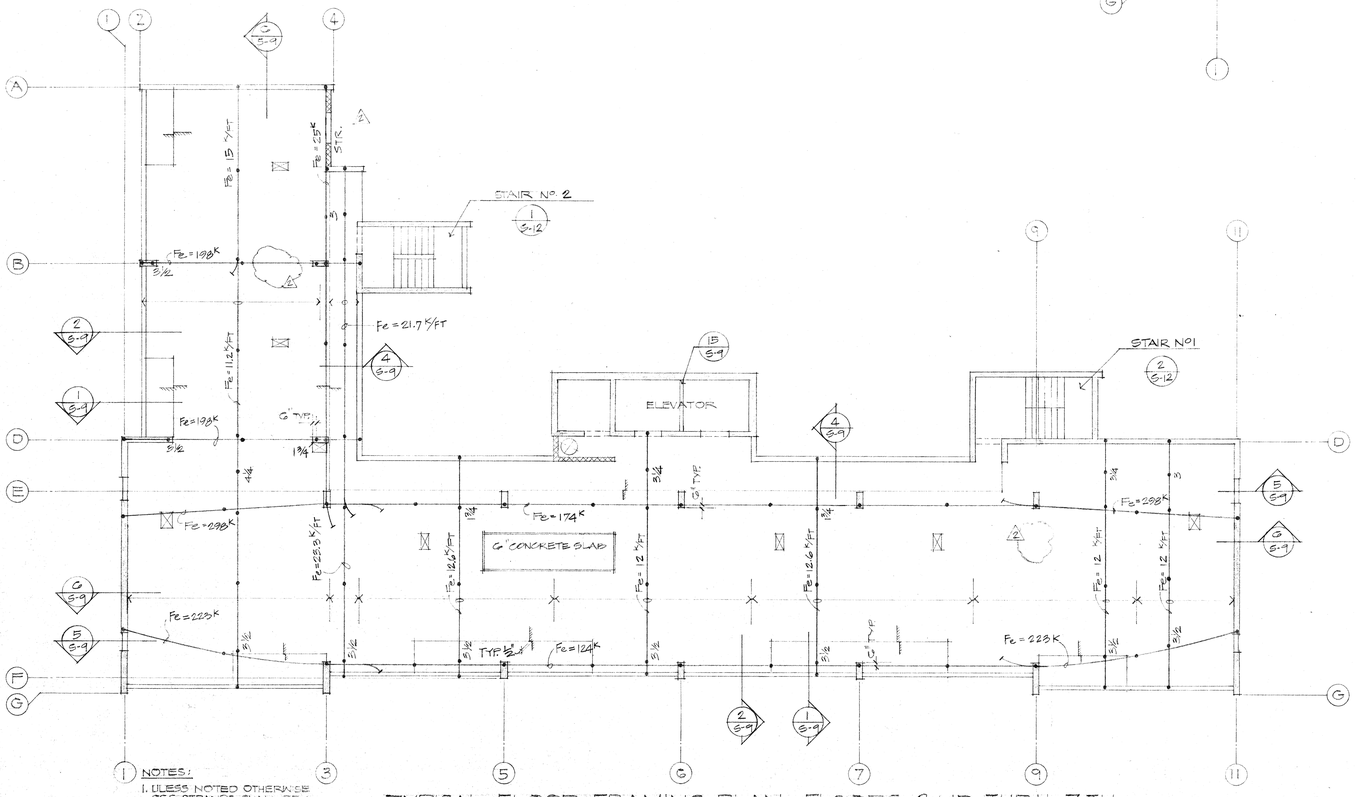
FIRST FLOOR FRAMING PLAN

PROJECT NO. 3707-10-3

SHEET NO. S-4 OF SHEETS



TYPICAL FLOOR FRAMING PLAN - FLOORS 2ND THRU 7TH
REBAR LAYOUT
1/8" = 1'-0"



NOTES:
1. UNLESS NOTED OTHERWISE CGS STRANDS SHALL BE:
A. 1" @ LOW POINTS @ MIDSPAN
B. 5" @ HIGH POINTS @ INTERIOR SUPPORT.
C. 3" @ MID. POINTS @ END SUPPORT.

TYPICAL FLOOR FRAMING PLAN - FLOORS 2ND THRU 7TH
POST TENSION LAYOUT
1/8" = 1'-0"

LEGEND

	TOP REINFORCING		ADDED BOTTOM REINFORCING
A	#4 @ 18 6" 1 3/8" + 2 #4 CONT. SUPPORT. TYPICAL @ EXTERIOR WALLS EXCEPT AT ACCESS CORRIDOR	L	4 #4 × 10'-0" @ 6"
B	#4 @ 12 6" 1 3/8" + 4 #4 CONT. SUPPORT. TYPICAL @ ACCESS CORRIDOR	M	4 #4 × 10'-0" @ 6"
C	#4 @ 12 6" 1 3/8" AT ELEVATOR LOBBY	N	6 #4 × 12'-0" @ 6"
D	6 #4 × 8'-0" @ 3"	P	6 #4 × 12'-0" @ 6"
E	6 #4 × 6'-0" @ 3"		
F	6 #4 @ 3" 6" 1 3/8"		
G	8 #6 × 8'-0" @ 4" ALT 1'-6"		
H	6 #6 × 8'-0" @ 4" ALT 1'-6"		
J	#4 @ 12 6" 1 3/8" 2-#4 CONT. SUPPORT. TYPICAL EXTERIOR WALLS		
K	#4 × 7'-6" @ 18		

REVISIONS			
3	6-22-79	DLU REVISIONS	EK
2	11/27/78		EK
REV.	DATE	DESCRIPTION	BY

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RICHARD M. UMEBA REGISTERED PROFESSIONAL ENGINEER No. 1016 HAWAII, U.S.A.

DMJM
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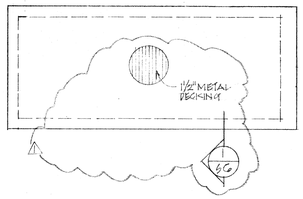
PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

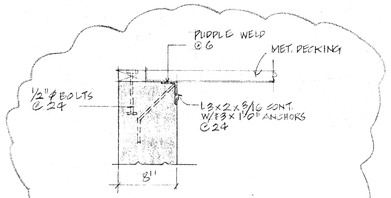
THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY PB
DRAWN BY
CHECKED BY RML
DATE 10/16/78

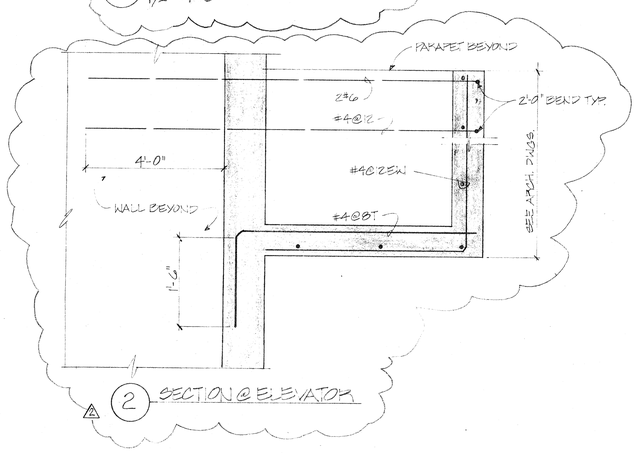
TYP. FLOOR FRAMING PLAN-FLR 3RD-7TH
PROJECT NO. 3707-10-3
SHEET NO. S-5 OF SHEETS



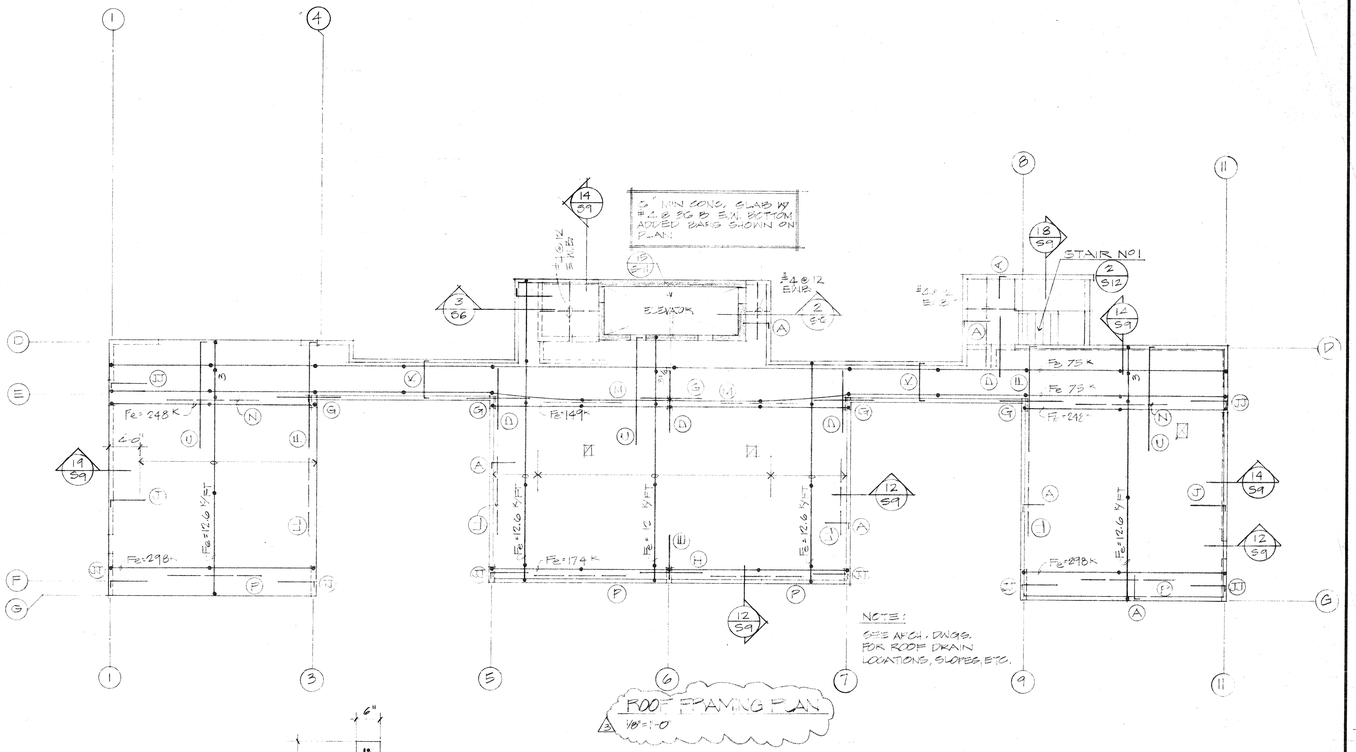
ELEVATOR ROOF FRAMING PLAN
1/4" = 1'-0"



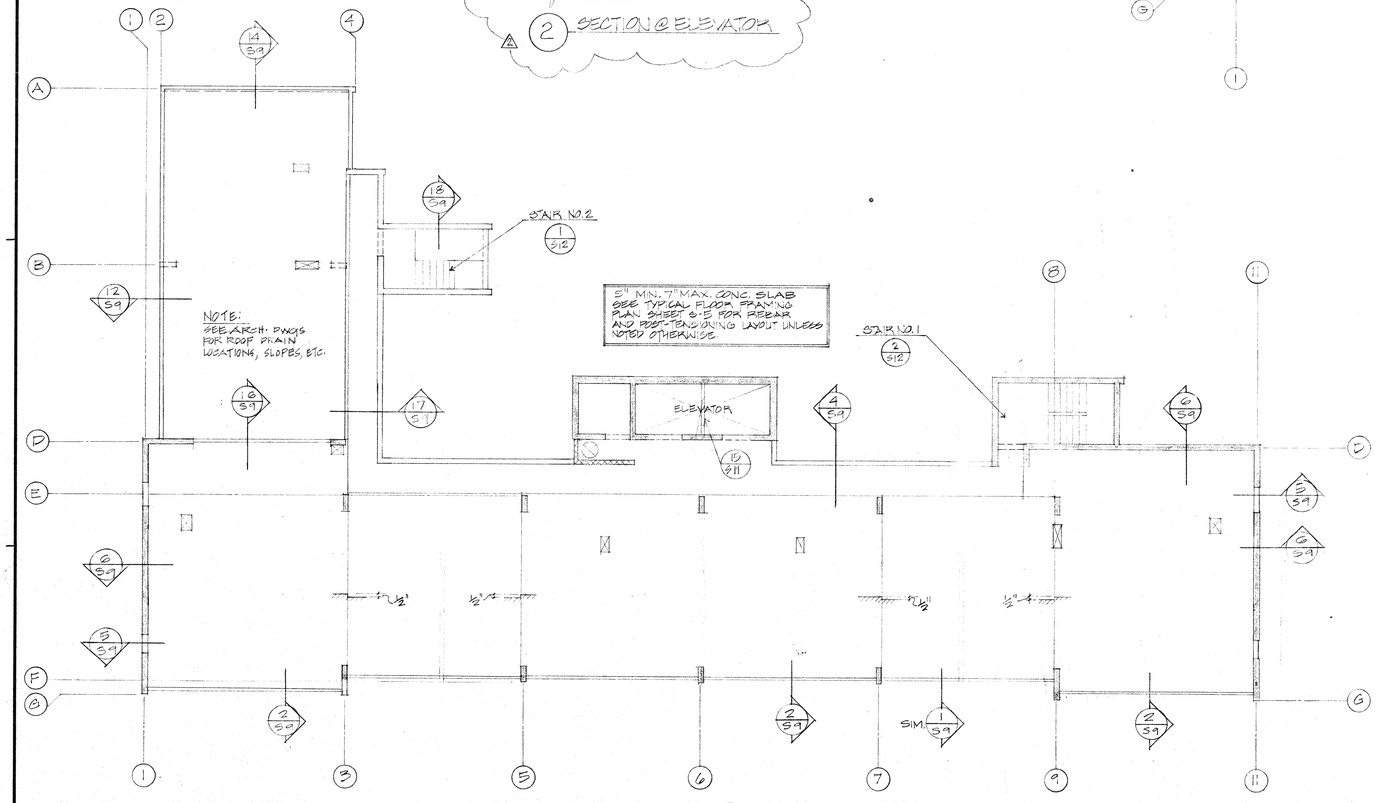
1 ELEVATOR DECK SECTION
1½" = 1'-0"



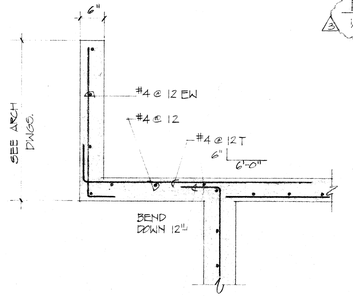
2 SECTION @ ELEVATOR



ROOF FRAMING PLAN
1/8" = 1'-0"



8TH FLOOR FRAMING PLAN
1/8" = 1'-0"



3 PARAPET SECTION AT ELEC. ROOM
3/4" = 1'-0"

	TOP REINFORCING		ADDED BOTTOM REINFORCING
A	#4 @ 18 6" 8'-0" 2 #4 CONT. SUPPORT, TYPICAL @ EXTERIOR WALLS EXCEPT AT ACCESS CORRIDOR.	L	4 #4 x 10'-0" @ 6
B	#4 @ 12 6" 12'-0" 4 #4 CONT. SUPPORT, TYPICAL @ ACCESS CORRIDOR	M	4 #4 x 10'-0" @ 6
C	#4 @ 12 6" 14'-0" AT ELEVATOR LOBBY	N	6 #4 x 12'-0" @ 6
D	6 #4 x 8'-0" @ 3"	P	6 #4 x 12'-0" @ 6
E	6 #4 x 6'-0" @ 3"	LL	4 #4 x 10'-0" @ 3
F	6 #4 @ 3" 6" 14'-0"		
G	8 #6 x 8'-0" @ 4" ALT 1'-6"		
H	6 #6 x 8'-0" @ 4" ALT 1'-6"		
J	#4 @ 12 6" 4'-6" 2 #4 CONT. SUPPORT, TYPICAL @ EXTERIOR WALLS		
K	#4 x 7'-6" @ 18		
JJ	7 #4 x 6" 4'-0" @ 3		

REV.	DATE	DESCRIPTION	BY
3	6-22-78	DLU REVISIONS	EK
2	11/27/78		EK
1	11/20/78	BLDG. DEPT. CORRECTIONS	EK

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Richard M. Lee

DMJM
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PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY PB
DRAWN BY
CHECKED BY RML
DATE 10/6/78

8TH FLOOR AND ROOF FRAMING PLAN

PROJECT NO. 3707-10-3

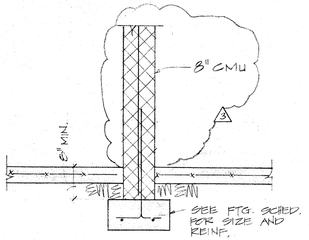
SHEET NO. S-6 OF SHEETS

FOOTING SCHEDULE

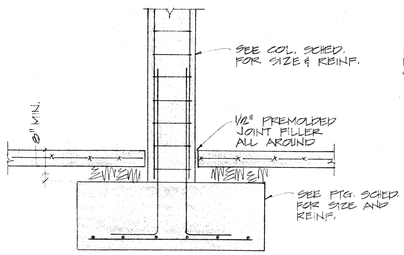
MARK	SIZE W	SIZE L	THICKNESS D	REINF. (BOTTOM) SHORT	REINF. (BOTTOM) LONG	SECTION	REMARKS
1	3'-0"	3'-0"	15"	5 #4	5 #4		ON TUFF
2	3'-6"	3'-6"	16"	5 #4	5 #4		"
3	4'-0"	4'-0"	17"	6 #5	6 #5		"
4	5'-6"	5'-6"	24"	7 #6	7 #6		"
5	6'-0"	6'-0"	26"	9 #6	9 #6		ON TUFF
6	6'-6"	6'-6"	28"	11 #6	11 #6		"
7	7'-0"	7'-0"	29"	13 #6	13 #6		"
8	7'-6"	7'-6"	31"	11 #7	11 #7		"
65	7'-6"	7'-6"	24"	7 #7	7 #7		ON BLACK SAND
10	12'-0"	24'-0"	24"	25 #6	18 #6		25" CT. SHORT, 12" CT. LONG, ON TUFF
11	12'-0"	24'-0"	24"	15 #6	12 #6		29" CT. SHORT, 12" CT. LONG, ON BLACK SAND
12	1'-6"	SEE PLAN	8"	—	2 #4		ON TUFF OR BLACK SAND
13	2'-0"	"	12"	#4@18	3 #4		"
14	2'-4"	"	12"	#4@12	3 #4		"
15	3'-0"	"	12"	#4@12	3 #4		"
16	3'-8"	"	12"	#4@12	3 #4		"
17	4'-0"	7'-6"	12"	11 #4	5 #4		ON BLACK SAND
35	4'-6"	4'-6"	17	7 #4	7 #4		"
45	5'-6"	5'-6"	20	5 #6	5 #6		"
18	5'-0"	12'-0"	24	15 #6	6 #6		ON TUFF
19	5'-0"	8'-0"	24	10 #6	6 #6		"
20	4'-6"	7'-6"	24	10 #6	6 #6		"

FOUNDATION NOTES:

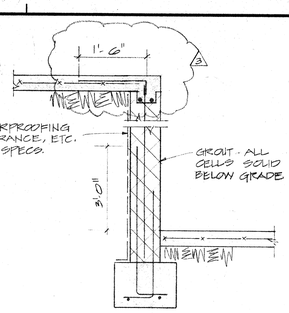
1. SEE FOUNDATION INVESTIGATION BY HARDING-LAWSON ASSOCIATES DATED NOVEMBER 1, 1978 FOR REQUIREMENTS RELATING TO BACKFILL BEHIND RETAINING WALLS AND POSITIVE DRAINAGE FROM THE BACK OF THE WALL. SEE SOILS REPORT FOR ALLOWABLE SOIL PRESSURES OF TUFF AND BLACK SAND.



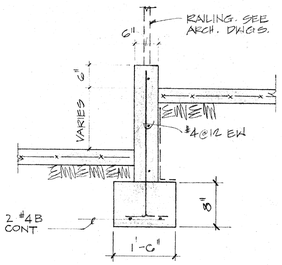
1 WALL FOOTING SECTION



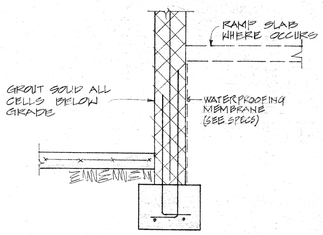
2 COLUMN FOOTING SECTION



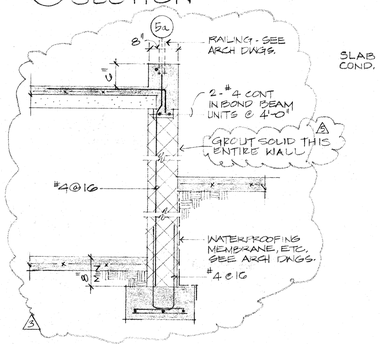
3 WALL SECTION AT LOBBY



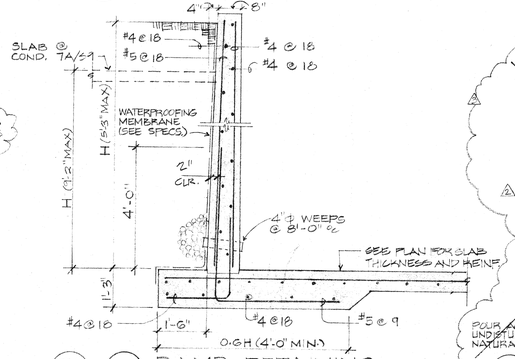
4 SECTION AT RAMP



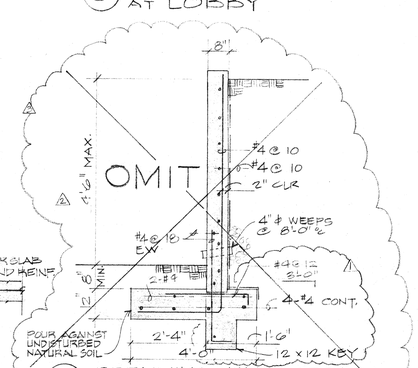
5 WALL SECTION



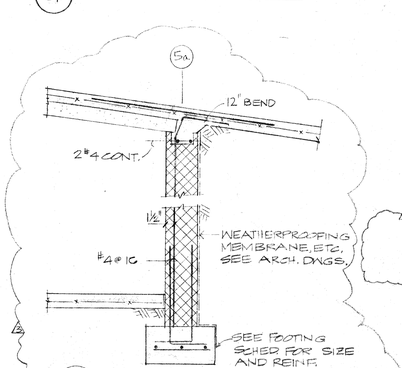
6 WALL SECTION AT SPLIT LEVEL



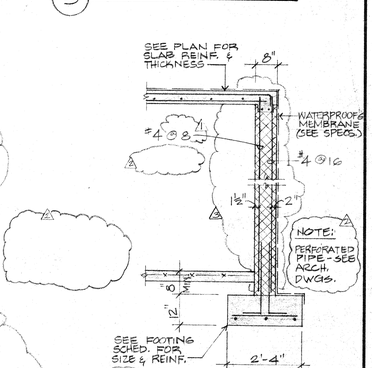
7A & 7 RAMP RETAINING WALL SECTION
1/2" = 1'-0"



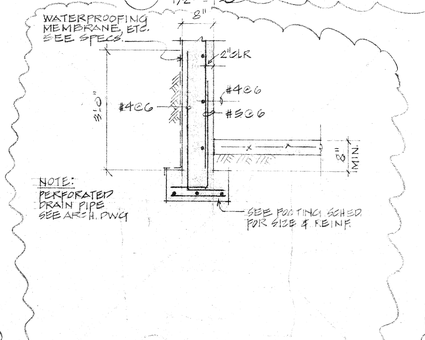
8 RETAINING WALL SECTION
1/2" = 1'-0"



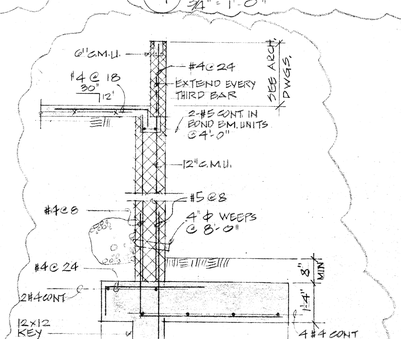
9 WALL SECTION AT RAMP
3/4" = 1'-0"



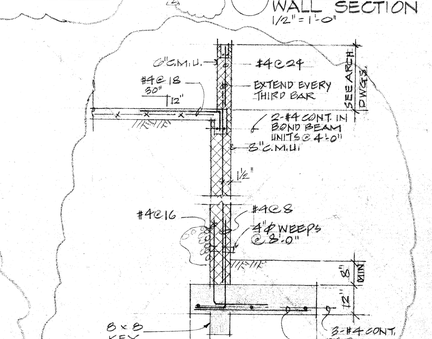
10 BASEMENT WALL SECTION
1/2" = 1'-0"



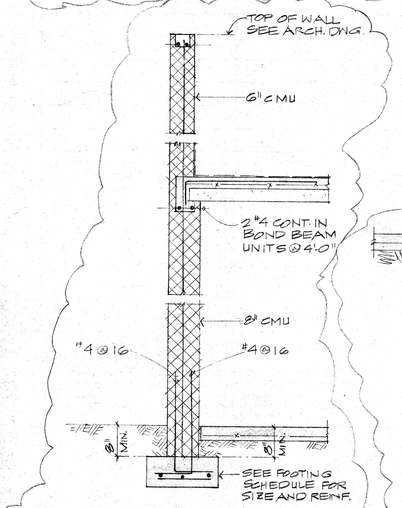
12 BASEMENT WALL SECTION



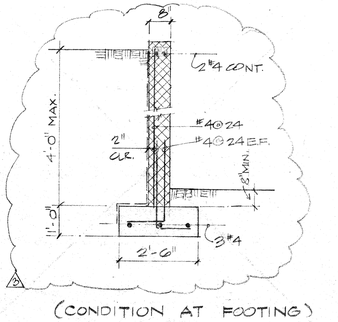
13 RETAINING WALL SECTION
1/2" = 1'-0"



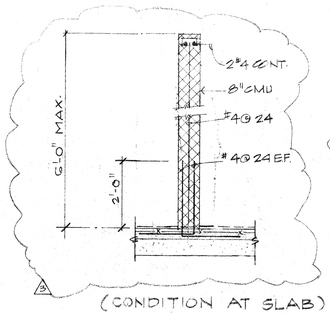
14 RETAINING WALL SECTION
1/2" = 1'-0"



15 BASEMENT WALL SECTION
3/4" = 1'-0"

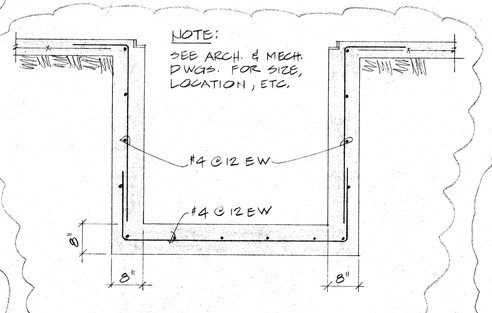


(CONDITION AT FOOTING)

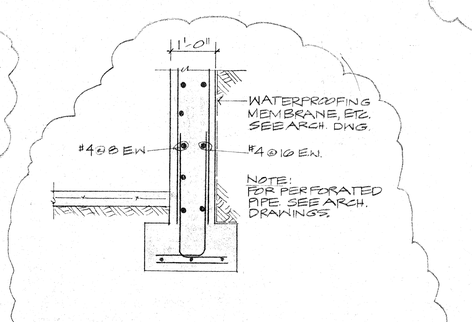


(CONDITION AT SLAB)

11 PLANTER WALL DETAILS
1/2" = 1'-0"



16 SUMP PIT SECTION



17 WALL SECTION AT POOL AREA

3/4" = 1'-0" UNLESS NOTED OTHERWISE

REVISIONS			
6-22-79	DLU REVISIONS	EK	
11/21/78		EK	
11/20/78	BLDG. DEPT. CORRECTIONS	EK	
REV.	DATE	DESCRIPTION	BY
8-20-80	FOOTING REVISIONS	NA	
8-24-79	BLDG. DEPT. COMMENTS	MKY	

REGISTERED PROFESSIONAL ENGINEER RICHARD W. LUDWIG NO. 4018 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

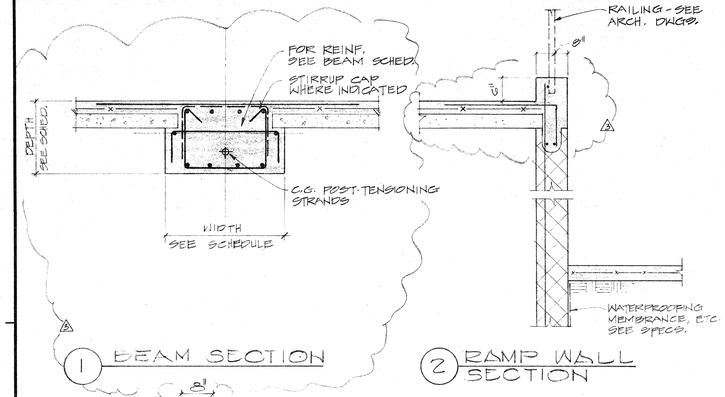
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	PB
DRAWN BY	
CHECKED BY	RML
DATE	10/16/78
PROJECT NO.	3707-10-3

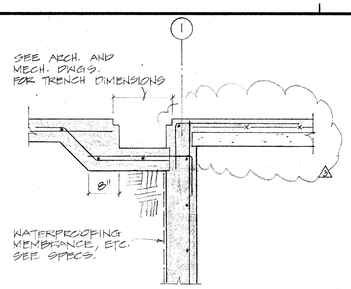
FOUNDATION SECTIONS

SHEET NO. S-7 OF SHEETS

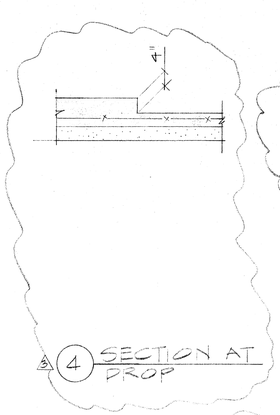


1 BEAM SECTION

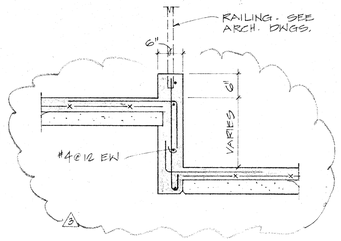
2 RAMP WALL SECTION



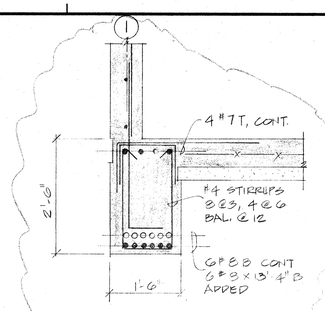
3 TRENCH DRAIN SECTION



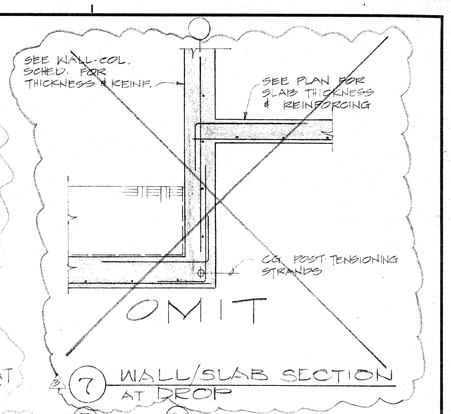
4 SECTION AT DROP



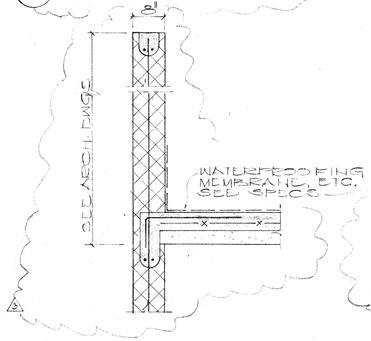
5 CURB SECTION AT RAMP



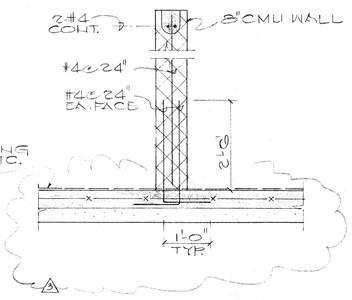
6 BEAM SECTION AT ENTRY RAMP



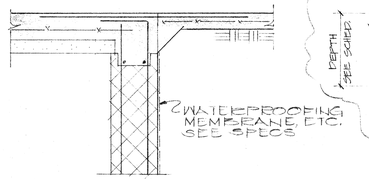
7 WALL/SLAB SECTION AT DROP



8 PARAPET SECTION

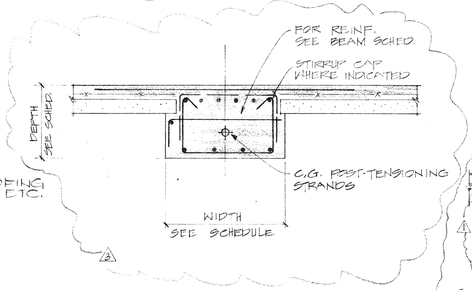


9 PLANTER WALL SECTION

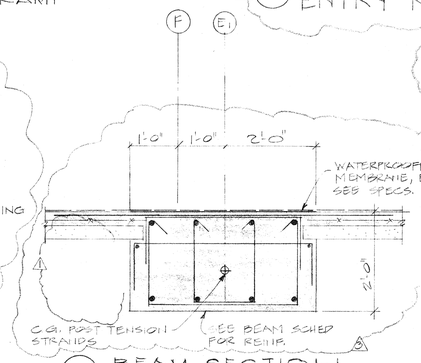


NOTE:
FOR BALANCE OF WALL SECTION SEE SECTION 9/S2

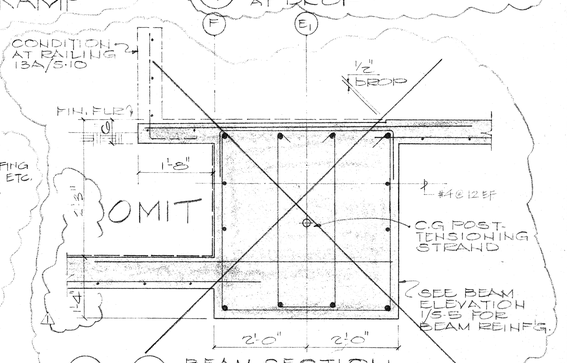
10 WALL/SLAB SECTION



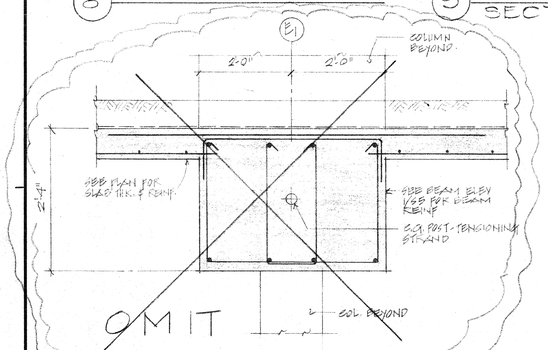
11 BEAM SECTION



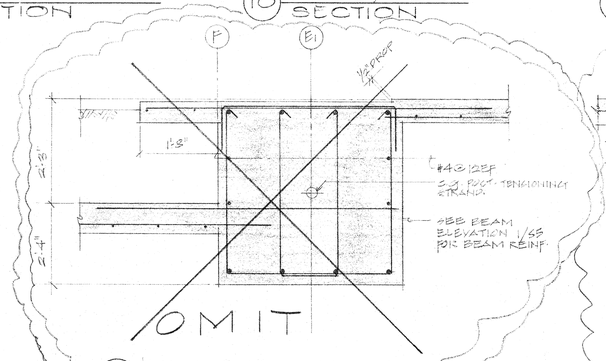
12 BEAM SECTION



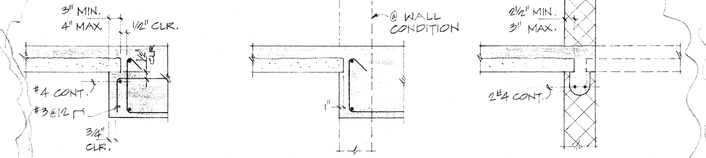
13 BEAM SECTION AT UNIT



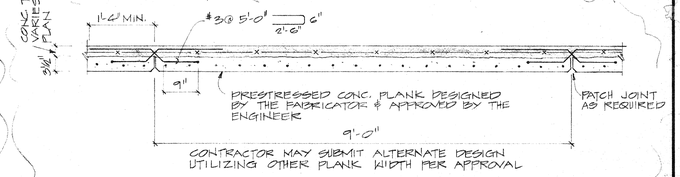
14 BEAM SECTION AT PLANTING



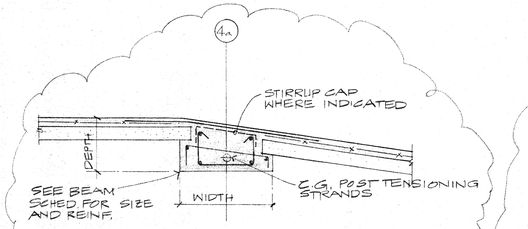
15 BEAM SECTION AT UNIT



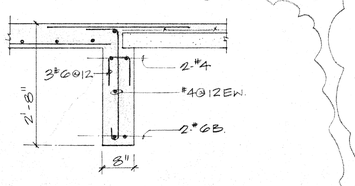
16 TYP. PRESTR. CONC. PLANK DETAILS
NOT TO SCALE



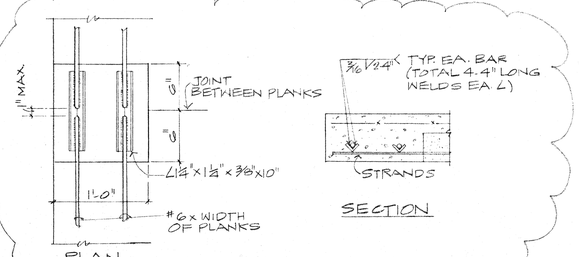
17 TYP. SECTION THRU PRESTRESSED CONCRETE PLANKS & TOPPING



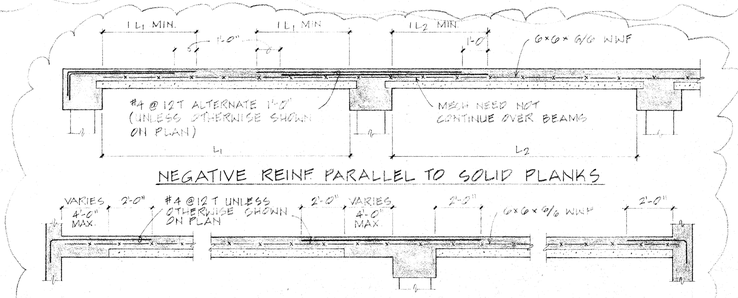
18 BEAM SECTION @ RAMP



19 SECTION AT EXHAUST SHAFT



20 CONNECTION OF PLANKS
1½"=1'-0"



21 TYPICAL NEGATIVE REINF FOR PRESTR. SOLID PLANKS OVER SUPPORTS
NOT TO SCALE

3/4"=1'-0" UNLESS NOTED OTHERWISE

REVISIONS			
2	6-22-79	DLU REVISIONS	EK
1	11/20/78	BLDG. DEPT. CORRECTIONS	EK
REV.	DATE	DESCRIPTION	BY

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

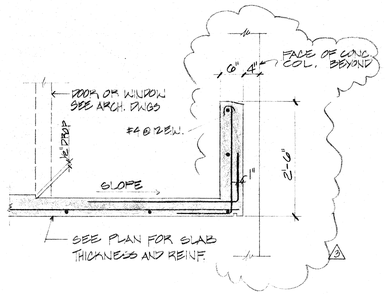
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

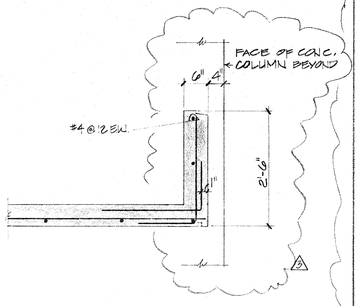
DESIGNED BY	PB
DRAWN BY	
CHECKED BY	RML
DATE	10/16/78
PROJECT NO.	3707-10-3

UPPER LEVEL PARKING & FIRST FLR. SECTIONS

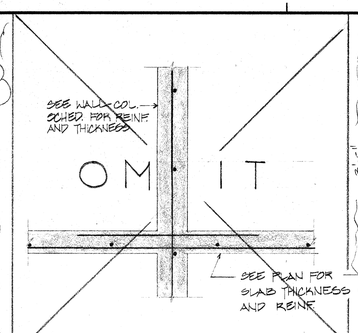
SHEET NO. S-8 OF SHEETS



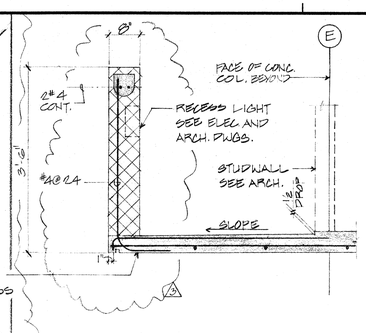
1 SECTION @ LANAI



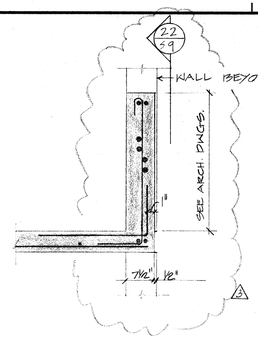
2 SECTION @ WINDOW SILL



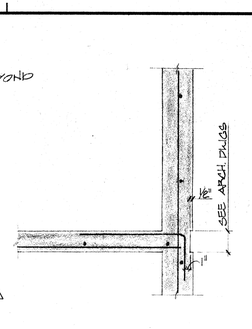
3 SECTION @ INTERIOR WALL



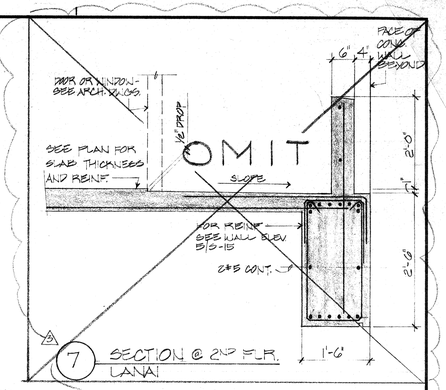
4 SECTION @ CORRIDOR RAILING



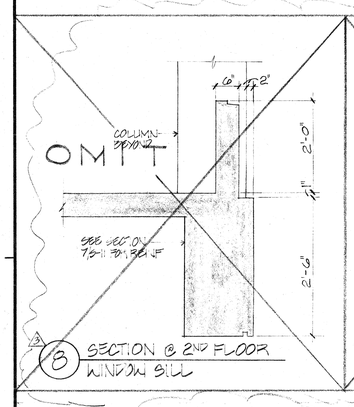
5 SECTION @ WINDOW



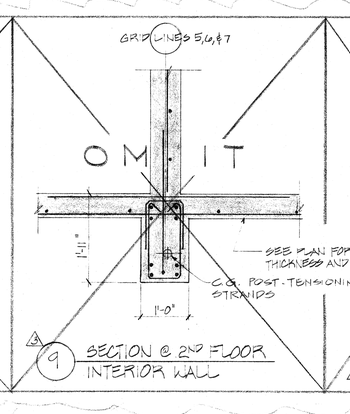
6 SECTION @ END WALL



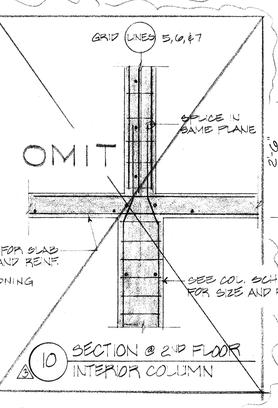
7 SECTION @ 2ND FLR. LANAI



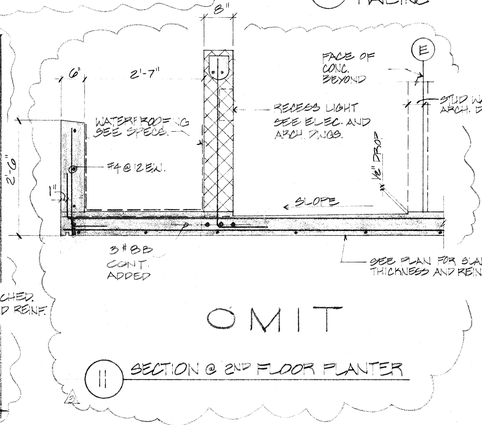
8 SECTION @ 2ND FLOOR WINDOW SILL



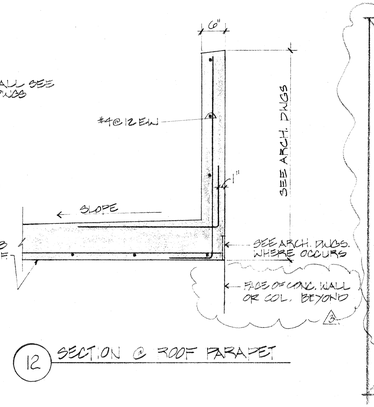
9 SECTION @ 2ND FLOOR INTERIOR WALL



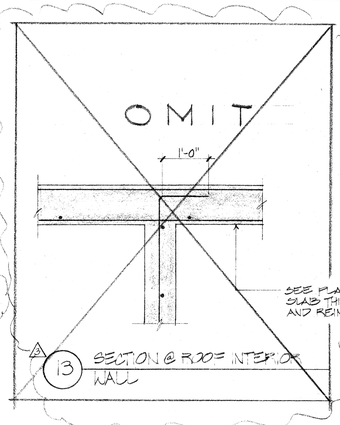
10 SECTION @ 2ND FLOOR INTERIOR COLUMN



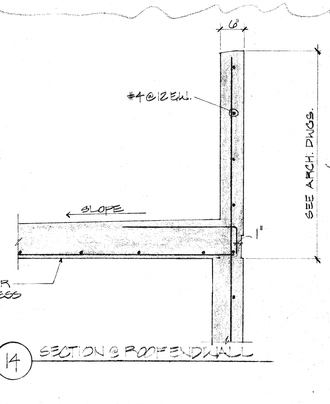
11 SECTION @ 2ND FLOOR PLANTER



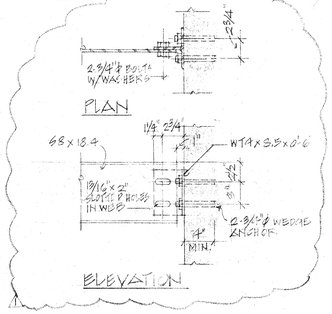
12 SECTION @ ROOF PARAPET



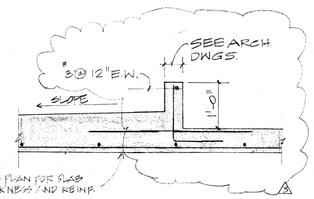
13 SECTION @ ROOF INTERIOR WALL



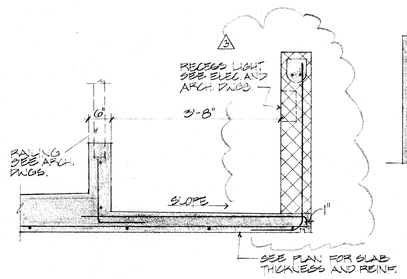
14 SECTION @ ROOF END WALL



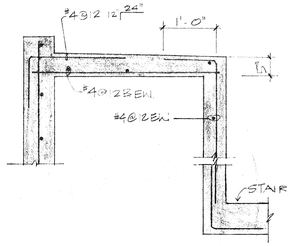
15 ELEVATOR SEPARATOR BEAM CONN.



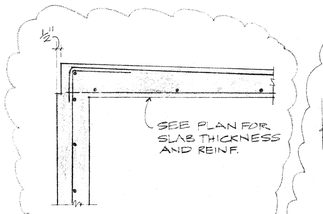
16 SECTION @ EXTERIOR



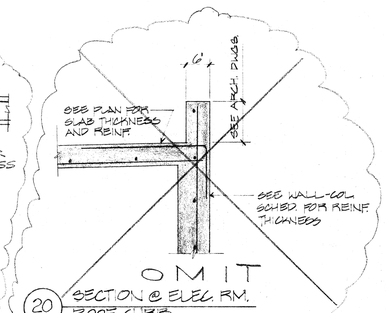
17 SECTION @ 8TH FLOOR EXTERIOR CORRIDOR



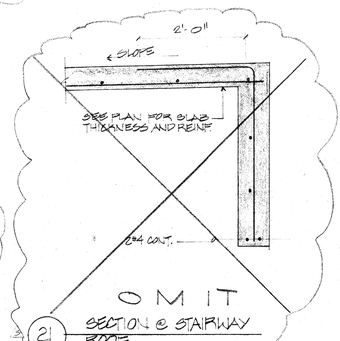
18 STAIR - ROOF SECTION



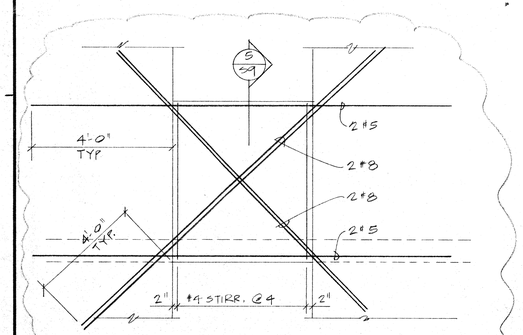
19 SECTION @ ROOF SLAB



20 SECTION @ ELEC. RM. ROOF CURB



21 SECTION @ STAIRWAY ROOF



22 WINDOW SILL ELEVATION - GRID LINES 1 AND 11
NOT TO SCALE

3/4" = 1'-0" UNLESS NOTED OTHERWISE

REVISIONS			
2	6-22-79	DLU REVISIONS	EK
1	11/20/78	BLDG. DEPT. CORRECTIONS	EK
REV.	DATE	DESCRIPTION	BY

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DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	PB
DRAWN BY	
CHECKED BY	RML
DATE	10/16/78
PROJECT NO.	3707-10-3

TYPICAL FLOOR AND ROOF SECTIONS

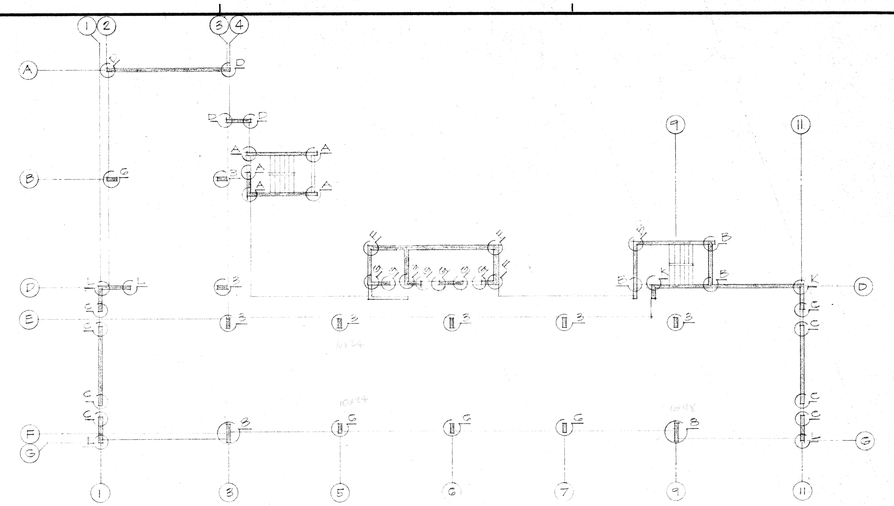
SHEET NO. S-9 OF SHEETS

⚠2 WALL - COLUMN SCHEDULE

LOCATION	FLOORS	THK (IN.)	HORIZ. REINF	VERT. REINF	ADDED REINF @ WALL END	TIES SIZE	TIES S1	TIES S2	TYPE	REF DETAIL	REMARKS
A	F-2	8	#4 @ 10	#4 @ 12	2 # 6	-	-	-	1&G		
	2-3		#4 @ 10		2 # 6	-	-	-	1&G		
	3-5		#4 @ 12		2 # 5	-	-	-	1&G		
	5-R	↓	↓	↓	2 # 5	-	-	-	1&G		
B	F-2	8	#4 @ 10	SEE S&3	4 # 6	-	-	-	3,4&5		
	2-3		#4 @ 10	#4 @ 12	4 # 6	-	-	-	3,4&5		
	3-5		#4 @ 12		3 # 5	-	-	-	1&G		
	5-R	↓	↓	↓	3 # 4	-	-	-	1&G		
C	F-2	8	#4 @ 6	#4 @ 12	4 # 6	3	4	6	3		
	2-3		#4 @ 8		4 # 6	3	4	6	3		
	3-5		#4 @ 12		4 # 6	3	4	6	3		
	5-R	↓	↓	↓	2 # 5	-	-	-	1		
D	F-2	8	SEE "A"		4 # 6	3	4	6	3		
	2-3				4 # 6	3	4	6	3		
	3-5				2 # 6	-	-	-	1		
	5-R	↓			2 # 5	-	-	-	1		
E	2-3	8	#4 @ 8	#4 @ 12	8 # 8	4	4	6	2		
	3-5		#4 @ 12	OMIT	4 # 8	3	4	6	3		
	5-R	↓	↓	↓	2 # 4	-	-	-	1		
F	F-2	12	#4 @ 5 SEE	#4 @ 16 SEE	4 # 8	3	4	6	3,4&5		
	2-3		#4 @ 5 SEE		4 # 7	3	4	6	3,4&5		
	3-5		#4 @ 12 SEE		4 # 6	3	4	6	3,4&5		
	5-R	↓	↓	↓	3 # 6	-	-	-	6		
G	F-2	8	#4 @ 8	#4 @ 12	4 # 5	3	4	6	3,4&5		
	2-3		#4 @ 8		4 # 5	3	4	6	3,4&5		
	3-5		#4 @ 12		2 # 6	-	-	-	1&6		
	5-R	↓	↓	↓	2 # 6	-	-	-	1&6		
H	2-3	8	SEE	"E"	12 # 8	4	4	6	2		
	3-5			OMIT	4 # 8	3	4	6	3		
	5-R	↓			2 # 4	-	-	-	1		
J	1-2	8	#4 @ 6	#4 @ 12	8 # 7	3	4	6	2		
	2-3		#4 @ 8		4 # 7	3	4	6	3		
	3-5		#4 @ 12	OMIT	2 # 5	-	-	-	1		
	5-R	↓	↓	↓	2 # 4	-	-	-	1		
K	F-2	8	#4 @ 6	#4 @ 12	8 # 7	3	4	6	2		
	2-3		#4 @ 8		4 # 7	3	4	6	4		
	3-5		#4 @ 12		2 # 7	-	-	-	6		
	5-R	↓	↓	↓	2 # 6	-	-	-	6		
L	F-2	8	#4 @ 6	#4 @ 12	8 # 7	3	4	6	2		
	2-3		#4 @ 8		4 # 7	3	4	6	3		
	3-5		#4 @ 12		4 # 7	3	4	6	3		
	5-R	↓	↓	↓	4 # 7	3	4	6	3		
M	F-1	8	#4 @ 6	#4 @ 12	-	-	-	-			SEE COL. 3
	1-2		#4 @ 6		12 # 8	4	4	6	2		
	2-3		#4 @ 8		12 # 8	3	4	6	2		
	3-5		#4 @ 12	OMIT	4 # 8	3	4	6	3		
	5-R	↓	↓	↓	2 # 4	-	-	-	1		
N	1-2	8	#4 @ 6	#4 @ 12	12 # 8	4	4	6	2		
	2-3		#4 @ 8		12 # 8	3	4	6	2		
	3-5		#4 @ 12	OMIT	4 # 8	3	4	6	3		
	5-R	↓	↓	↓	2 # 4	-	-	-	1		
P	F-1	8	#4 @ 12 EF*	OMIT	4 # 5	3	4	6	3,4,5		* SEE BASEMENT WALL SECTIONS
Q	F-UP	8	#4 @ 6	SEE 12/S-7	8 # 7	3	4	6	2		
	UP-1	8	#4 @ 6	#4 @ 8	8 # 7	3	4	6	2		

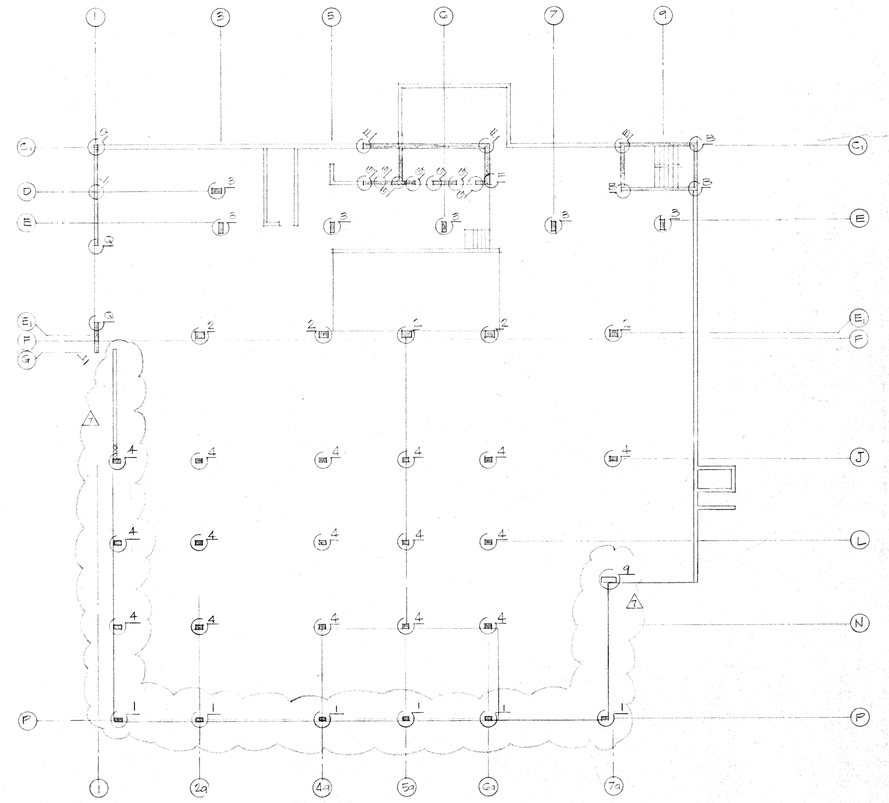
COLUMN SCHEDULE

LOCATION	FLOORS	SIZES (IN) W	SIZES (IN) L	TYPE	REINF	#3 TIES S1	#3 TIES S2	#4 TIES S1	#4 TIES S2	REF DETAIL	REMARKS
1	F - 3	8	18	I	4 # 8	8	8	-	-	⚠1	
2	LP - 1	16	24	II	9 # 3	-	-	4	6		
3	LP - 2	10	24	II	8 # 7	-	-	4	6		
	2 - 4	10	24	III	8 # 7	-	-	4	6		
	4 - R	10	24	II	4 # 7	4	6				
4	LP - 1	12	8	III	4 # 8	4	6	4	6		
5	UP - 1	8	18	I	4 # 6 OMIT	4	6	-	-		
6	1 - 2	10	24	II	8 # 7	-	-	4	6		
	3 - 4	10	24	III	6 # 7	-	-	4	6		
	4 - R	10	24	III	4 # 7	4	6				
7	UP - 1	18	18	III	4 # 9 OMIT	-	-	12	12		
8	1 - 2	10	48	II	8 # 7	-	-	4	6		
	3 - 4	10	48	II	8 # 6	-	-	4	6		
	4 - R	10	48	II	8 # 6	4	6				
9	UP-1	12	42	II	8 # 8	4	6	4	6	⚠1	



TYPICAL FLOOR PLAN - FLOORS 2ND THRU 7TH (FLOOR 1ST AND 8TH SIM)

⚠2



UPPER LEVEL PARKING PLAN

⚠3

REVISIONS			
⚠1	7-1-80	GENERAL REVISIONS	NA
⚠2	6-22-79	DLU REVISIONS	EK
⚠3	11/27/78		EK
REV.	DATE	DESCRIPTION	BY

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Richard W. Botts

REGISTERED PROFESSIONAL ENGINEER No. 1922 HAWAII U.S.A.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII

WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

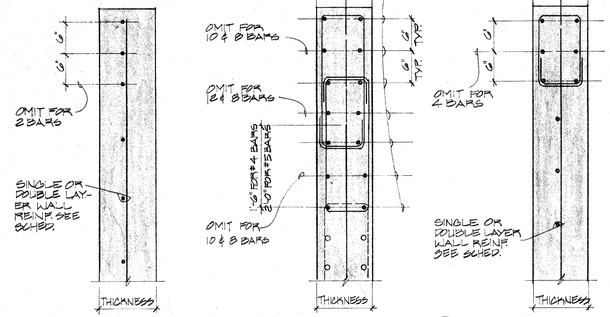
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	PB
DRAWN BY	
CHECKED BY	RML
DATE	10/6/78
PROJECT NO.	5707-10-3

COLUMN AND WALL-COLUMN SCHEDULE

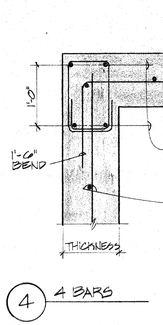
SHEET NO. S-10 OF SHEETS



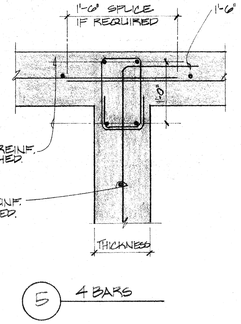
1 2 & 3 BARS

2 MULTIPLE BARS

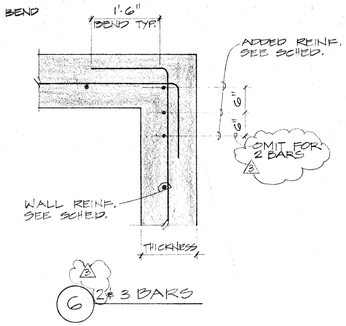
3 4 & 6 BARS



4 4 BARS

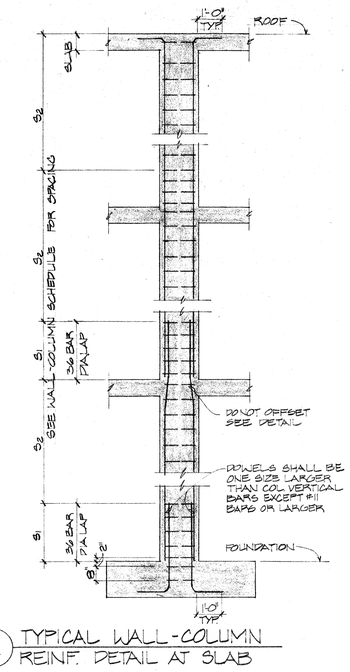


5 4 BARS

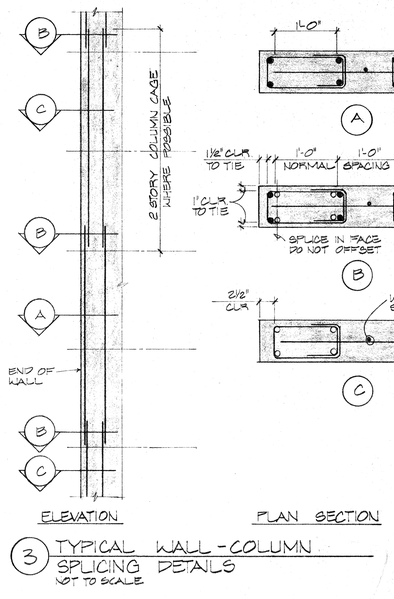


6 2 & 3 BARS

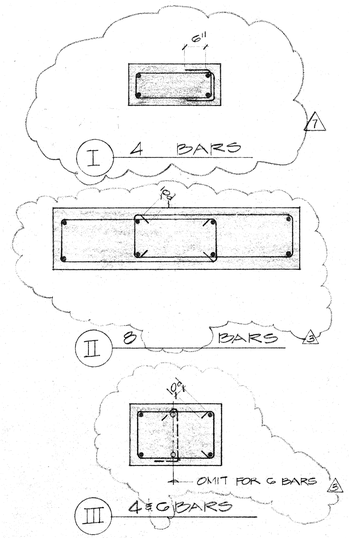
1 WALL-COLUMN TYPES
NOT TO SCALE



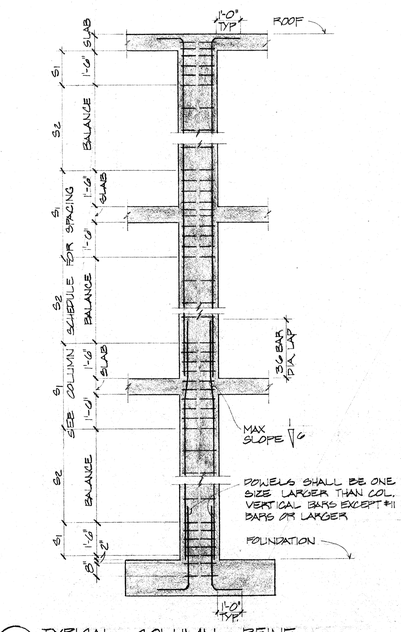
2 TYPICAL WALL-COLUMN REINF. DETAIL AT SLAB



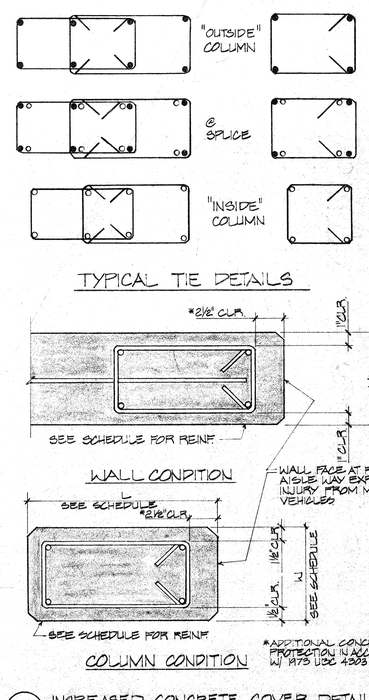
3 TYPICAL WALL-COLUMN SPLICING DETAILS
NOT TO SCALE



4 COLUMN TYPES
NOT TO SCALE



5 TYPICAL COLUMN REINF. DETAIL AT SLAB



6 INCREASED CONCRETE COVER DETAIL AT PARKING NOT TO SCALE

REVISIONS			
1	7-16-80	GENERAL REVISIONS	NA
2	6-22-79	DLJ REVISIONS	EK
REV.	DATE	DESCRIPTION	BY

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DMJM

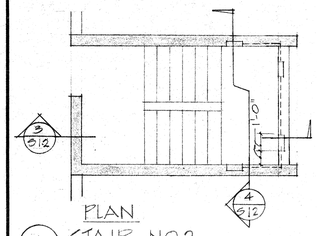
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	PB
DRAWN BY	
CHECKED BY	RML
DATE	10/16/78
PROJECT NO.	3707-10-3

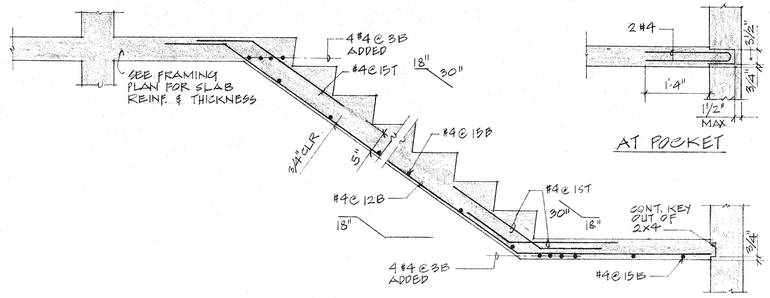
COLUMN AND WALL-COLUMN TYPES AND DETAILS

SHEET NO. S-11 OF SHEETS



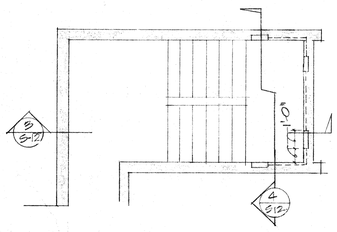
PLAN

1 STAIR NO. 2
1/4"=1'-0"



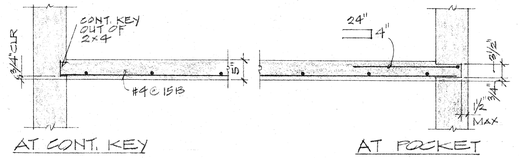
AT POCKET

3 TYPICAL STAIR SECTION
NOT TO SCALE



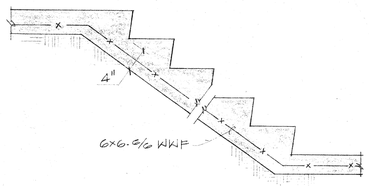
PLAN

2 STAIR NO. 1
1/4"=1'-0"

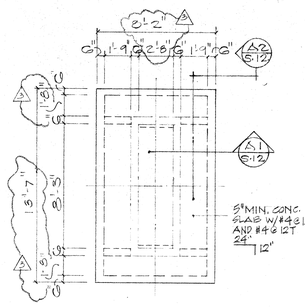


AT CONT. KEY AT POCKET

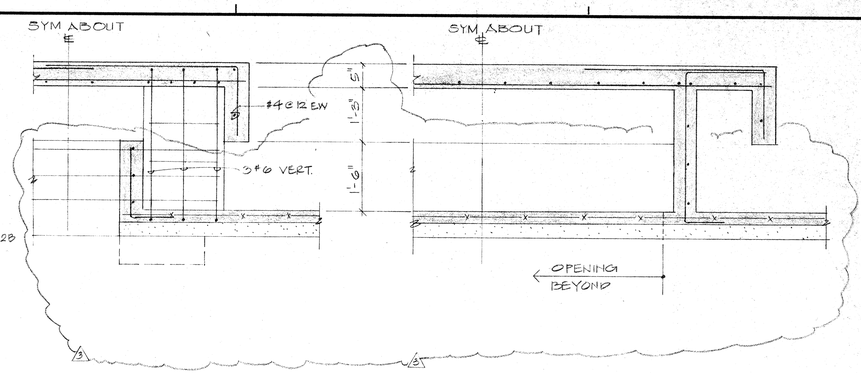
4 TYPICAL INTERMEDIATE LANDING SECTION
NOT TO SCALE



5 TYPICAL STEP SECTION ON GRADE
NOT TO SCALE

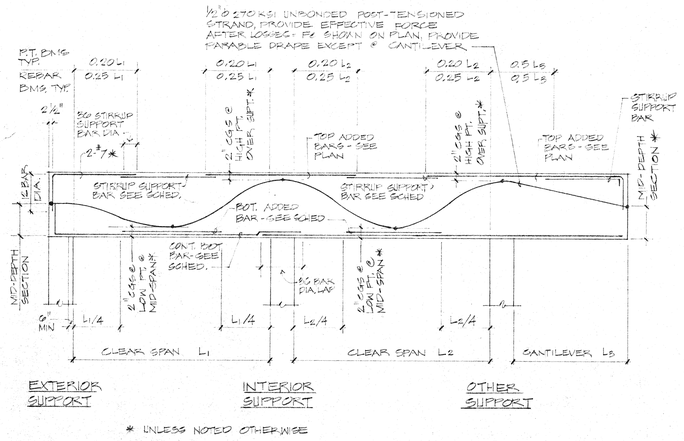


A PLAN-CONC. CAP OVER DUCT OPG
1/4"=1'-0"



A1 TRANSVERSE SECTION
3/4"=1'-0"

A2 LONGITUDINAL SECTION
3/4"=1'-0"



6 TYPICAL BEAM REINFORCING AND POST-TENSIONING DIAGRAM NOT TO SCALE

NOTES TO BEAM SCHEDULE

1. BEAMS MARKED (P-1) ON FRAMING PLANS ARE REBAR BEAMS AND SHALL BE REINFORCED AS SCHEDULED. BEAMS MARKED (PB-1) ON FRAMING PLANS SHALL BE REINFORCED AS SCHEDULED AND SHALL BE POST-TENSIONED TO OBTAIN Fe = EFFECTIVE PRESTRESSING FORCE SHOWN ON PLAN. REFER TO POST-TENSIONED PRESTRESSED CONCRETE ON SHEET S-1
2. BAR SIZE IS NO. 8 UNLESS OTHERWISE NOTED. STIRRUPS ARE NO. 4 UNLESS OTHERWISE NOTED.
3. BARS SHALL BE PLACED IN AS FEW LAYERS AS POSSIBLE WITH 1" CLEARANCE BETWEEN LAYERS AND 1" CLEARANCE BETWEEN BARS IN THE SAME LAYER.
4. TOP ADDED REINFORCING BARS ARE MARKED THUS ON FRAMING PLAN (4) (NUMBER DENOTES QUANTITY OF TOP ADDED BARS)
5. TOP ADDED AND BOTTOM ADDED BARS SHALL BE STAGGERED 2'-0" WITH OVERALL LENGHT AS SHOWN ON TYPICAL BEAM DIAGRAM.
6. WHERE THE NUMBER OF TOP CONTINUOUS BARS CHANGES AT A SUPPORT, THE LAYER NUMBER SHALL EXTEND BEYOND THE SUPPORT INTO THE ADJACENT BEAM THE SAME DISTANCE AS THE TOP ADDED BAR AT THAT SUPPORT.
7. PLACE STIRRUPS 12 INCHES ON CENTER THROUGHOUT THE SPAN UNLESS NOTED OTHERWISE IN SCHEDULE
8. THE FIRST STIRRUP SHALL BE PLACED 2 INCHES FROM THE FACE OF SUPPORT.
9. STIRRUPS PLACED WITHIN A 2D DISTANCE FROM SUPPORTING COLUMN OR WALL SHALL BE CAPPED : [M] 1/2" MIN. UNLESS SHOWN OTHERWISE IN SCHEDULE.
10. STIRRUP SPACING FOR CANTILEVER AS PER SCHEDULE AT SUPPORT ONLY.

BEAM SCHEDULE

MARK	SIZE W" (IN.)	SIZE D" (IN.)	REINF. TOP STIRRUP SUPPORT BARS	#8 BARS UNLESS NOTED OTHERWISE: BOTT. CONT. NO OF BARS	#8 BARS UNLESS NOTED OTHERWISE: BOTT. ADDED NO OF BARS	#4 STIRRUPS: SPACING @ EA. END	#4 STIRRUPS: TYPE	REFERENCE DETAIL	REMARKS
PB-1	24	14	2 #6	2	—	@12	M	1/S8	
PB-2	24	14		2	—	6@6 BAL.@10		1/S8, 11/S-8	
PB-3	24	14		2	—	9@10 BAL@12		1/S-8	
PB-4	24	14		2	1	@10			
PB-5	24	14		2	2	6@6 BAL@10			
PB-6	24	16		2	1	6@6 BAL.@12			
PB-7	36	14		2	—	@12			
PB-8	48	26		7	—	12@6BAL@12	M	12/S-8	
PB-9	48	26		7	7	@6		12/S8	
PB-10	48	30		7	—	6@6BAL@12		12/S8	
PB-11	24	16		2	1	@10	M	1/S8	
PB-12	18	16		2	2	@12			
PB-13	18	16		2	—	6@12 BAL@18			
PB-14	18	14		2	—	6@12 BAL@18	"	"	

REVISIONS			
REV.	DATE	DESCRIPTION	BY
1	7-16-80	GENERAL REVISIONS	NA
2	6-22-79	DLII REVISIONS	ER

REGISTERED PROFESSIONAL ENGINEER No. 1030 HAWAII, U.S.A.

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DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

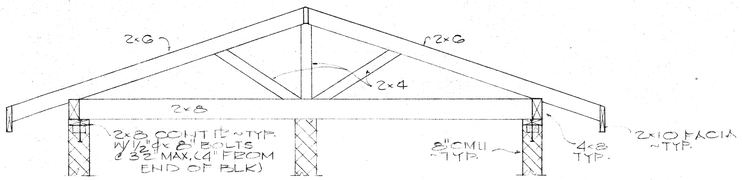
THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY FB
DRAWN BY
CHECKED BY PML
DATE 10/16/78

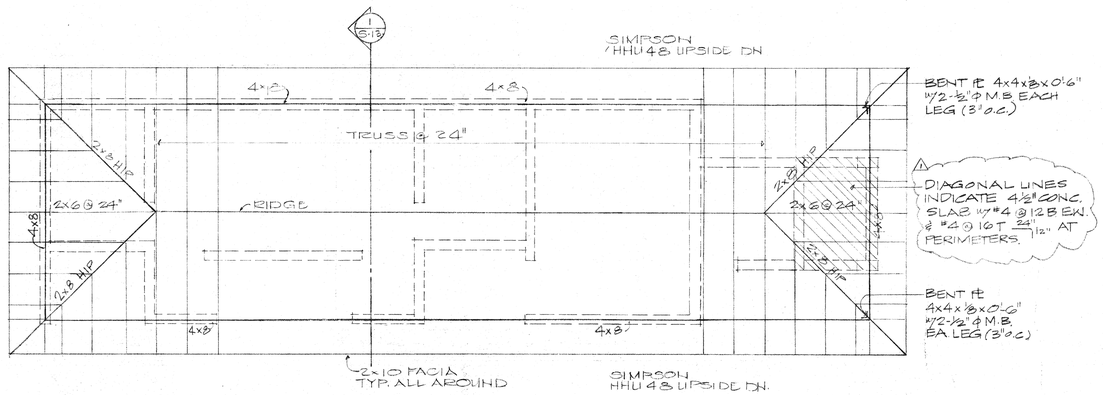
STAIR SECTIONS AND DETAILS

PROJECT NO. 3707-10-3

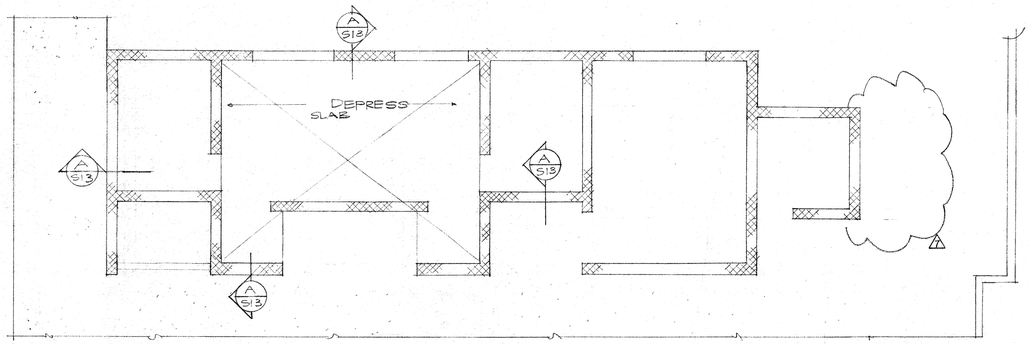
SHEET NO. S-12
OF SHEETS



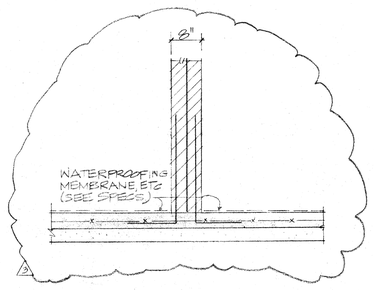
1 TYPICAL CROSS-SECTION
1/2"=1'-0"



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



2 POOL FACILITIES FLOOR PLAN
1/4"=1'-0"



A WALL SECTION
3/4"=1'-0"

REVISIONS			
1	7-15-80	GENERAL REVISIONS	NA
2	6-22-79	DLU REVISIONS	EK
1	12/18/78	BLDG. DEPT. COMMENTS	EK
REV.	DATE	DESCRIPTION	BY

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DMJM

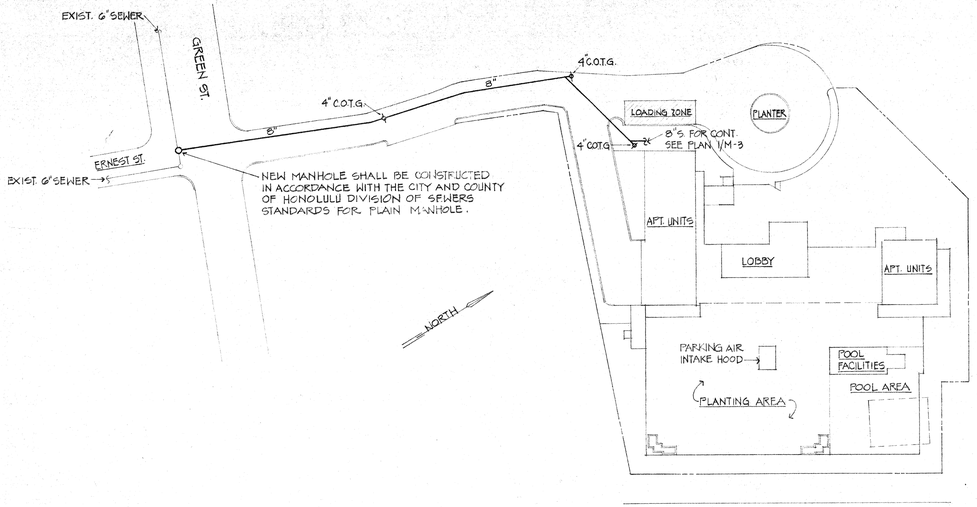
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	PB
DRAWN BY	
CHECKED BY	PML
DATE	10/16/78
PROJECT NO.	3707-10-3

POOL FACILITIES PLAN AND SECTIONS

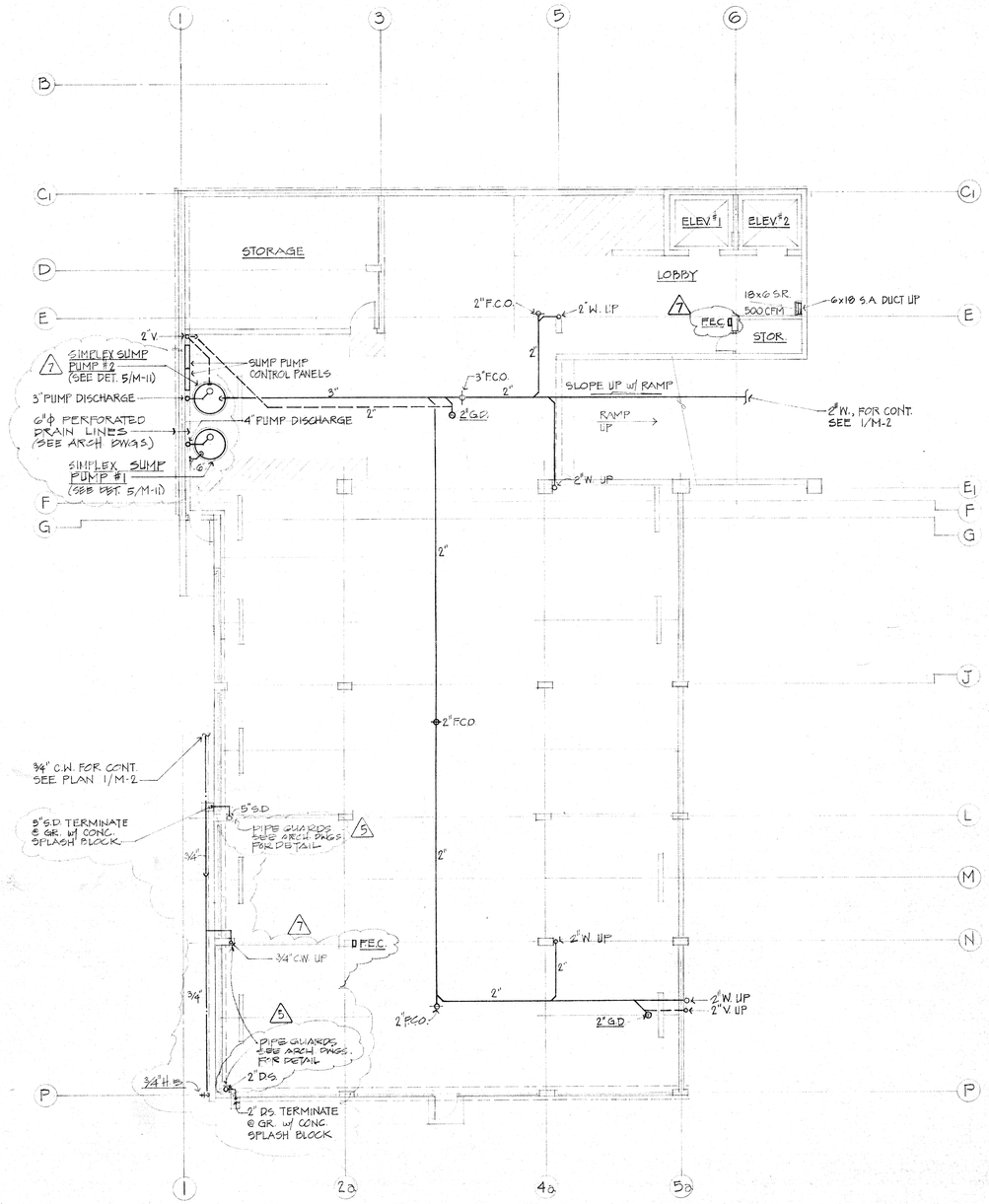
SHEET NO. S-13 OF SHEETS



SITE PLAN (1 / M-1)
SCALE: 1/32" = 1'-0"

MECHANICAL LEGEND

———	S. OR W.	SOIL OR WASTE
- - - - -	V.	VENT
——·——	C.W.	COLD WATER
——-·——	H.W.	HOT WATER
——··——	HWR	HOT WATER RETURN
	F.H.C.	FIRE HOSE CABINET
	F.E.C.	FIRE EXTINGUISHER CABINET
	H.E.V.	HOSE END VALVE
—⋈—	G.V.	GATE VALVE
—⊣⊢—	C.V.	CHECK VALVE
—⊠—	P.C.	PLUG COCK
—⊠—	G.C.	GAS COCK
	T&P. REL. V	TEMPERATURE & PRESSURE RELIEF VALVE
	V.B.	VACUUM BREAKER
—SD—	S.D.	STORM DRAIN
	D.S.	DOWNSPOUT
	F.D.C.	FIRE DEPARTMENT CONNECTION
—DSP—	D.S.P.	DRY STAND PIPE
—WSP—	W.S.P.	WET STAND PIPE
	N.S.T.	NATIONAL STANDARD THREAD
—F—	F. SPK.	FIRE SPRINKLER
	C.O.	CLEAN OUT
	W.C.O	WALL CLEAN OUT
	F.C.O	FLOOR CLEAN OUT
	C.O.T.G.	CLEAN OUT TO GRADE
	E.F.	EXHAUST FAN
	E.G.	EXHAUST GRILLE
	E.R.	EXHAUST REGISTER
	EXH.	EXHAUST
	F.D.	FIRE DAMPER
	S.D.	SUB DUCT
	S.F.	SUPPLY FAN
	S.G.	SUPPLY GRILLE
	S.R.	SUPPLY REGISTER
	T.G.	TRANSFER GRILLE
—G—	G.	GAS
—⊣⊢—	STR.	STRAINER
—⊠—	SOL.V.	SOLENOID VALVE
—⊠—	P.R.V.	PRESSURE REDUCING VALVE
—HPG—	H.P.G.	HIGH PRESSURE GAS
	B.D.D	BACK DRAFT DAMPER
	D.E.	DRYER EXHAUST
	F.C.	FLEXIBLE CONNECTION
	G.C.	GENERAL CONTRACTOR
	H.B.	HOSE BIBB
	K.E.	KITCHEN EXHAUST
	P.D.	PLANTER DRAIN
	V.T.R.	VENT THRU ROOF
(A) / (1) / 0.07		EXHAUST RISER DESIGNATION
		PLUMBING STACK OR RISER DESIGNATION
		PIPE INVERT ELEVATION



LOWER LEVEL PARKING PLAN (2 / M-1)
SCALE: 1/8" = 1'-0"

REVISIONS			
7	7/15/80	REV. PUMP #1 & 2 TO SIMPLEX	E.P.
6	8/24/79	BLDG. DEPT. COMMENTS	E.P.
REV.	DATE	DESCRIPTION	BY

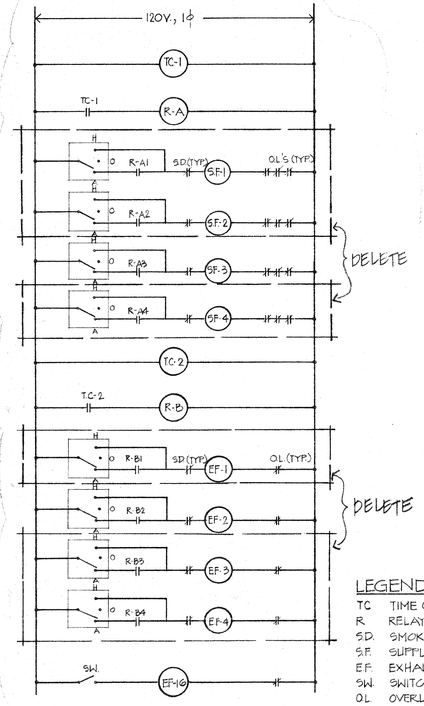
LOUIS T. L. CHENG REGISTERED PROFESSIONAL ENGINEER HAWAII U.S.A. No. 3681
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

DMJM
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	B.H./E.P.
DRAWN BY	E.P./J.K.
CHECKED BY	L.C.
DATE	6-22-79
PROJECT NO.	8707-10-3

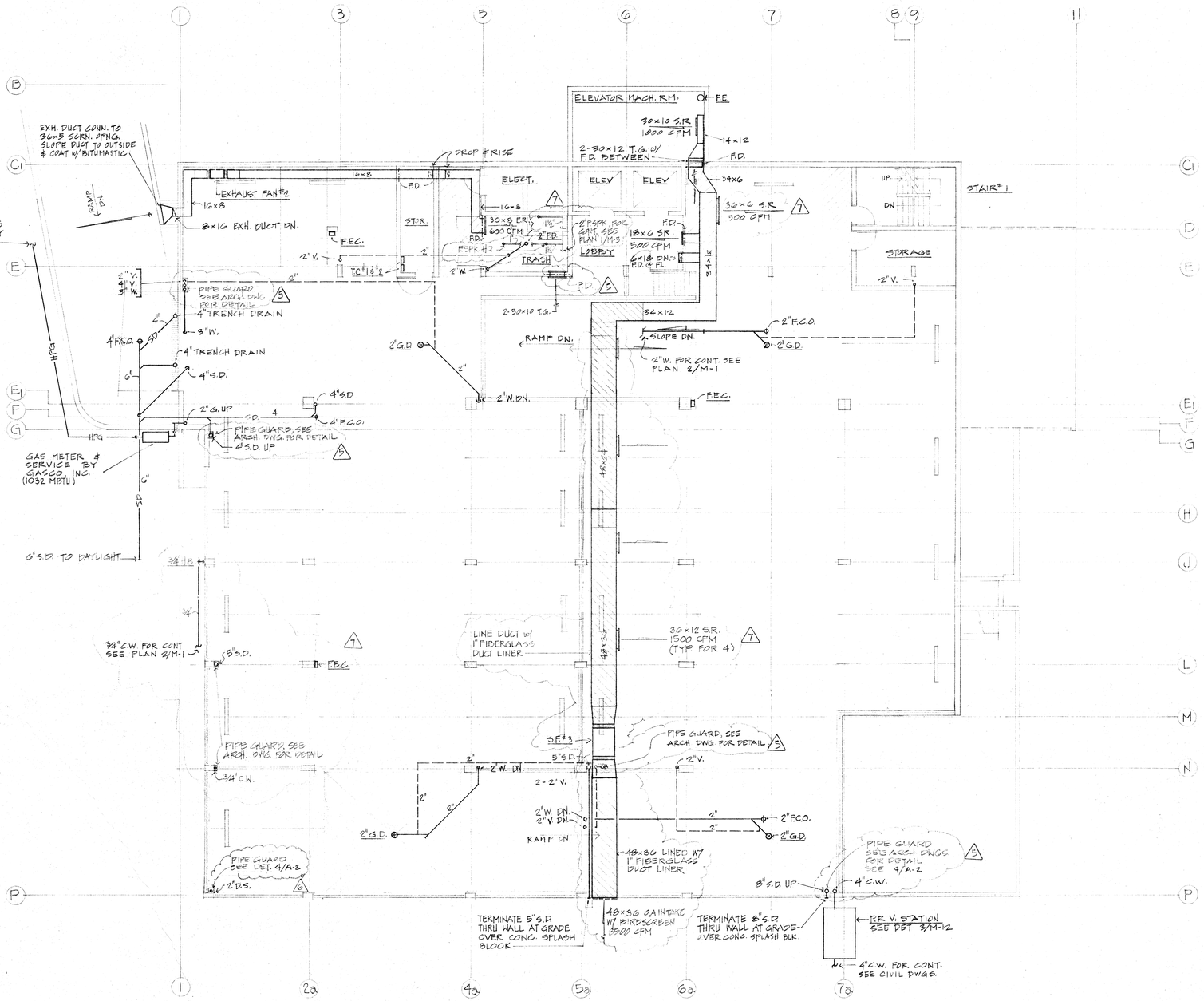
LOWER LEVEL PARKING PLAN
SHEET NO. M-1 OF SHEETS



LEGEND

TC	TIME CLOCK
R	RELAY
S.D.	SMOKE DETECTOR
S.F.	SUPPLY FAN
E.F.	EXHAUST FAN
SW.	SWITCH
OL	OVERLOAD

⚠ PARKING & LOBBY VENTILATION FANS CONTROL DIAGRAM (2 / M-2)



UPPER LEVEL PARKING PLAN (1 / M-2)
SCALE: 1/8" = 1'-0"

REVISIONS			
⚠1	7-15-80	REVISED PARKING	E.P.
⚠2	9-17-79	BLDG. DEPT. COMMENTS	KH
⚠3	8/24/79	BLDG. DEPT. COMMENTS	E.P.
REV.	DATE	DESCRIPTION	BY

LOUIS T. L. CHENG — REGISTERED PROFESSIONAL ENGINEER — No. 3684 — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

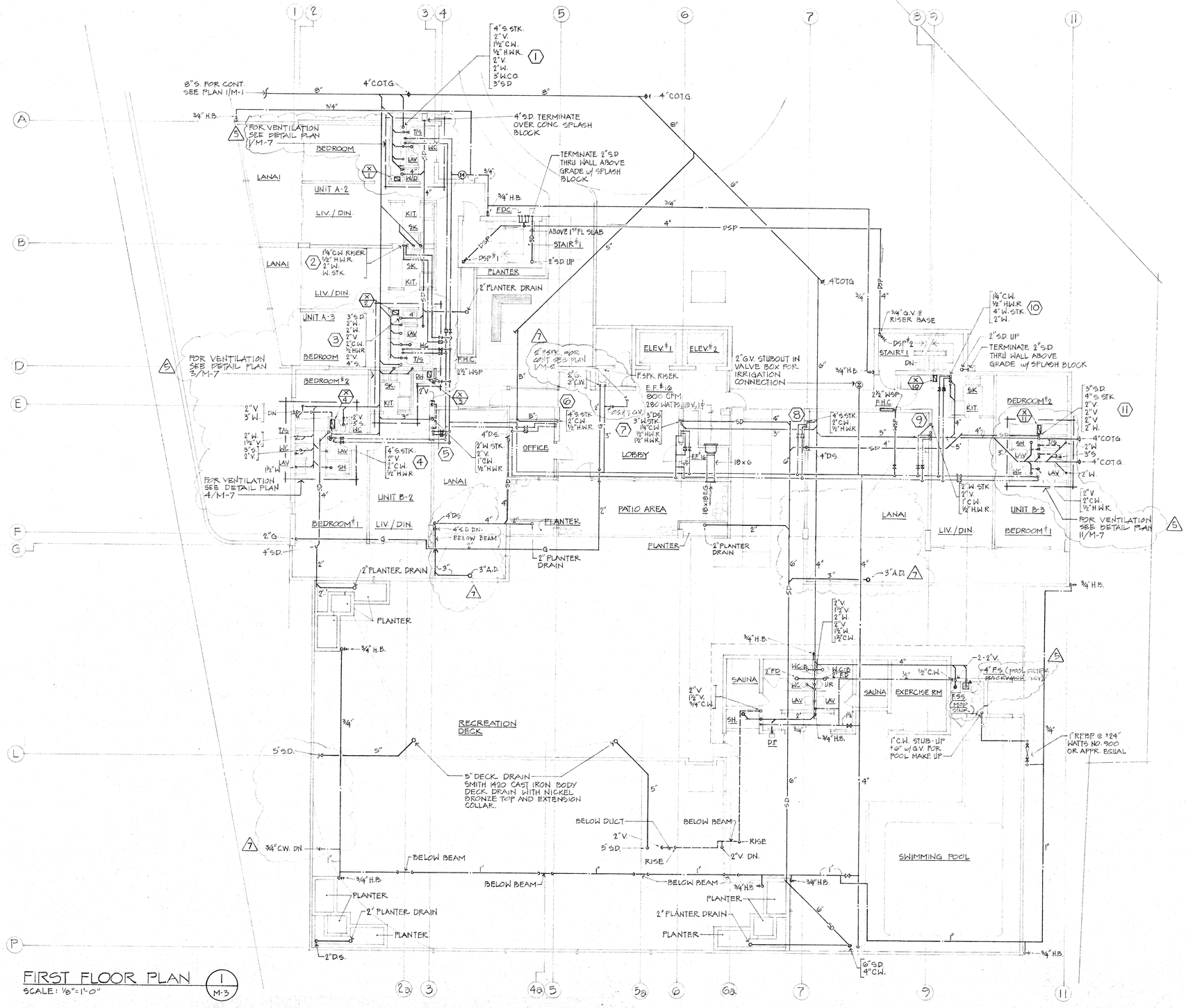
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	E.P./B.H
DRAWN BY	E.P./J.K.
CHECKED BY	L.C.
DATE	6-22-79

● UPPER LEVEL PARKING PLAN

PROJECT NO. 3707-10-3

SHEET NO. M-2 OF SHEETS



FIRST FLOOR PLAN (1 / M-3)
SCALE: 1/8"=1'-0"

REVISIONS			
4	7/15/80	REVISED PARK'G VENT & TRASH RM. & SPA & RELOCATED LANAI A.D.	B.P.
3	8/24/79	BLDG. DEPT. COMMENTS	E.P.
REV.	DATE	DESCRIPTION	BY

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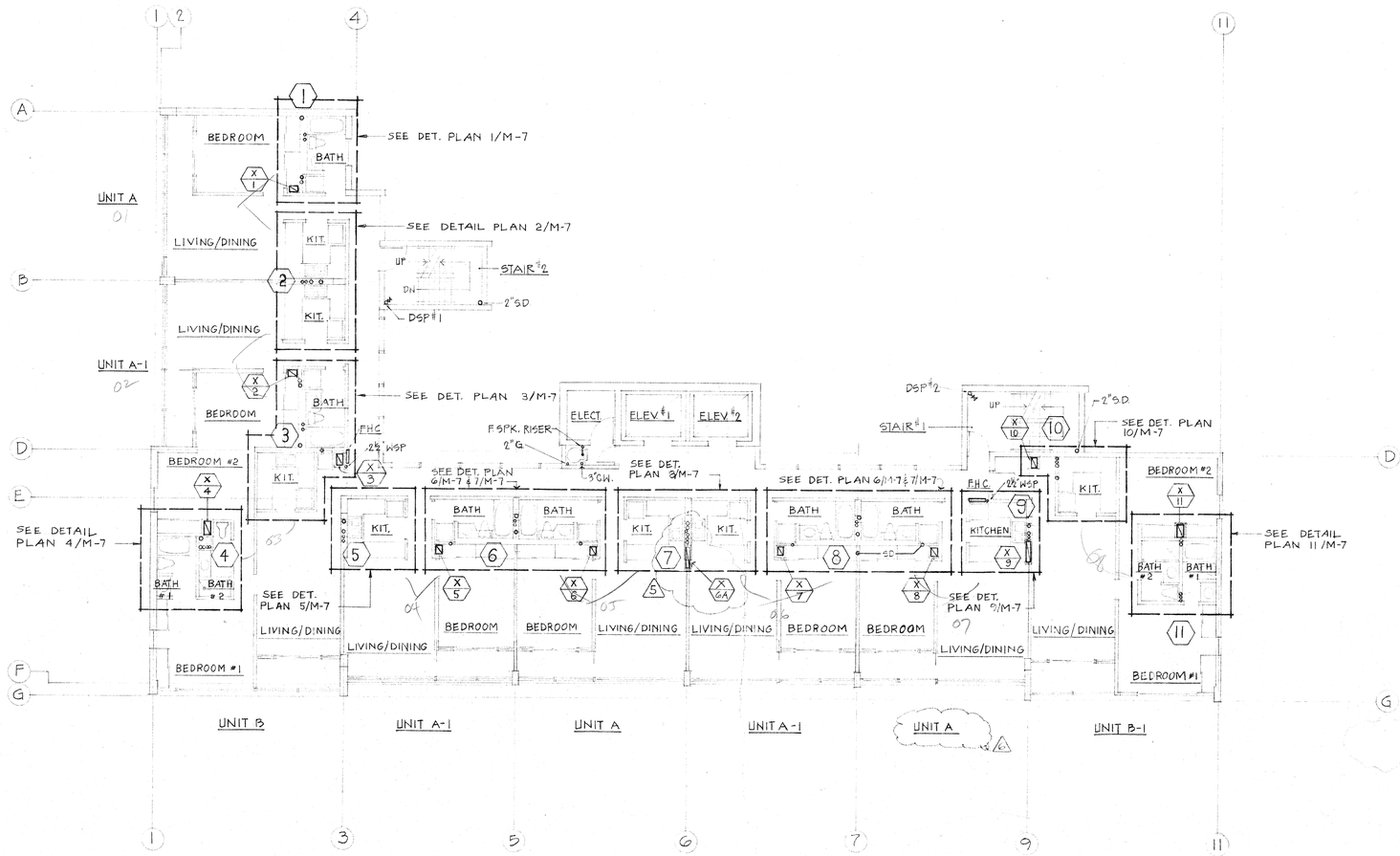
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	B.H./E.P.
DRAWN BY	E.P./J.K.
CHECKED BY	L.C.
DATE	6-22-79
PROJECT NO.	5707-10-3

● 1ST FLOOR PLAN

SHEET NO. M-3 OF SHEETS



2ND THRU 7TH FLOOR PLAN

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

1 / M-4

REVISIONS			
6	9-17-79	BLDG. DEPT. COMMENTS	KH
5	8/24/79	BLDG. DEPT. COMMENTS	E.P.
REV.	DATE	DESCRIPTION	BY

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PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

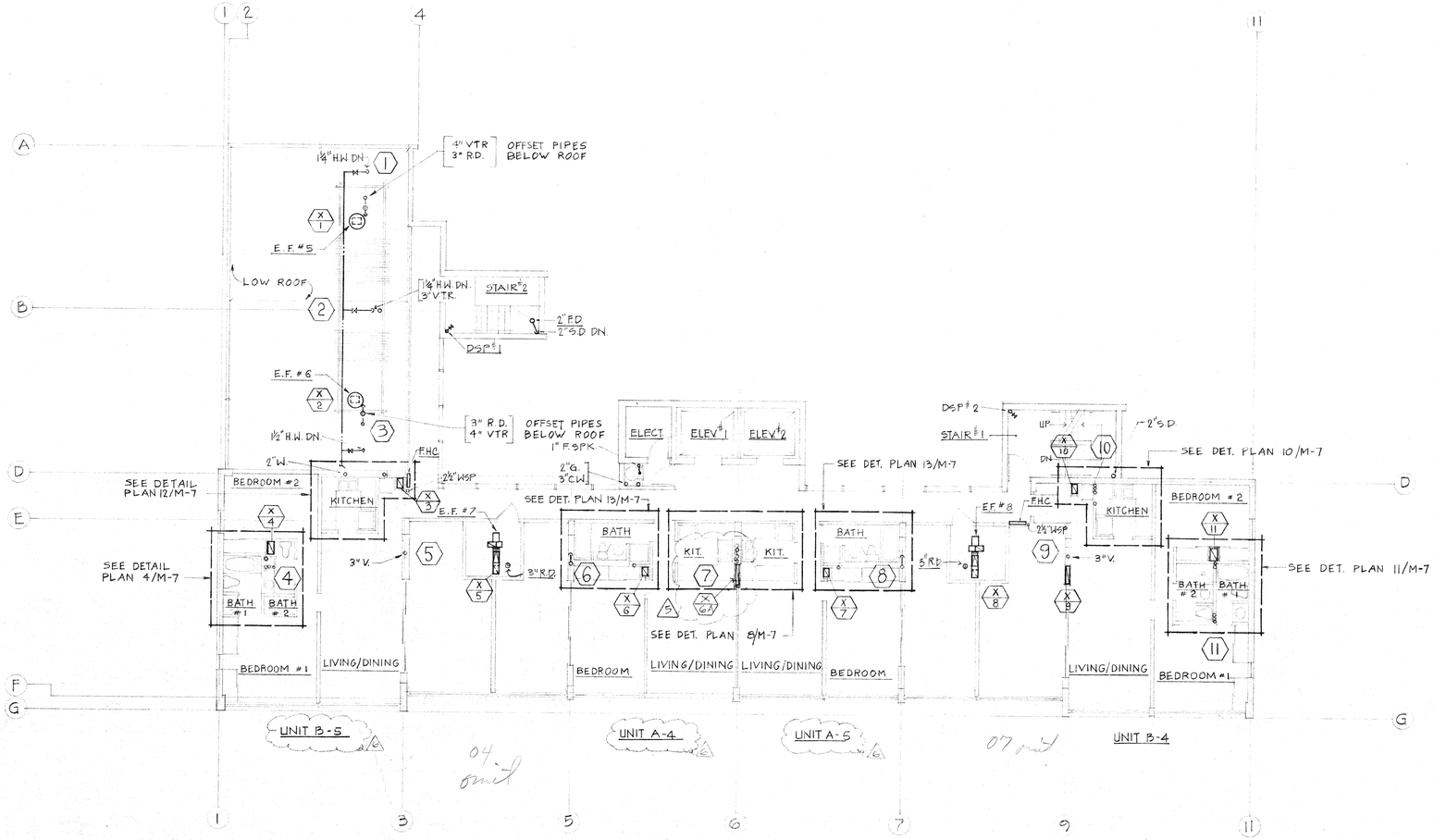
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	B.H./E.P.
DRAWN BY	E.P./J.K./F.B.
CHECKED BY	L.C.
DATE	6-22-79
PROJECT NO.	3707-10-3

● 2ND THRU 7TH FLOOR PLAN

SHEET NO. M-4 OF SHEETS



8TH FLOOR PLAN (1 / M-5)

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

REVISIONS			
6	9-17-79	BLDG. DEPT. COMMENTS	KH
5	8/24/79	BLDG. DEPT. COMMENTS	E.P.
REV.	DATE	DESCRIPTION	BY

LOUIS T. L. CHENG — REGISTERED PROFESSIONAL ENGINEER — No. 3681 — HAWAII, U.S.A.

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WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

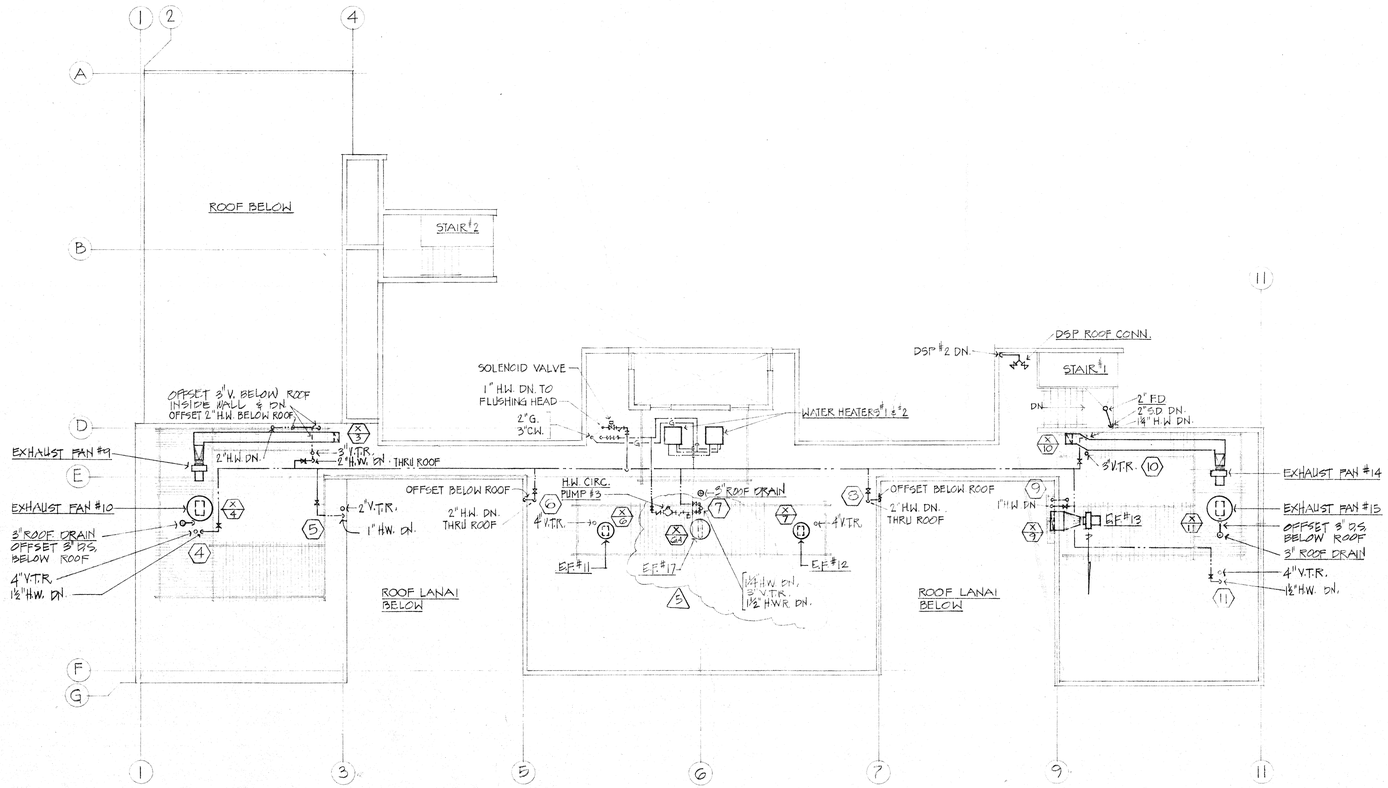
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	BH/EP
DRAWN BY	E.P./J.K./F.B.
CHECKED BY	L.C.
DATE	6-22-78
PROJECT NO.	3707-10-3

● 8TH FLOOR PLAN

SHEET NO. M-5 OF SHEETS



ROOF PLAN (1 / M-6)

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

REVISIONS			
REV.	DATE	DESCRIPTION	BY
5	8/24/79	BLDG. DEPT. COMMENTS	E.P.

LOUIS T. L. CHENG REGISTERED PROFESSIONAL ENGINEER No. 3884 HAWAII, U.S.A.

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PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

THE BEL AIR PLAZA

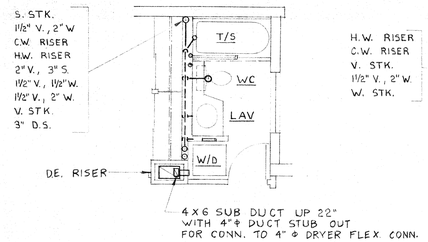
1054 GREEN ST., HONOLULU, HAWAII

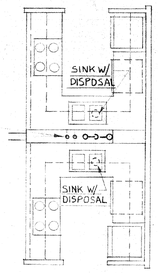
DESIGNED BY	B.H./E.P.
DRAWN BY	E.P./J.K.
CHECKED BY	L.C.
DATE	6-22-79
5	

● ROOF PLAN

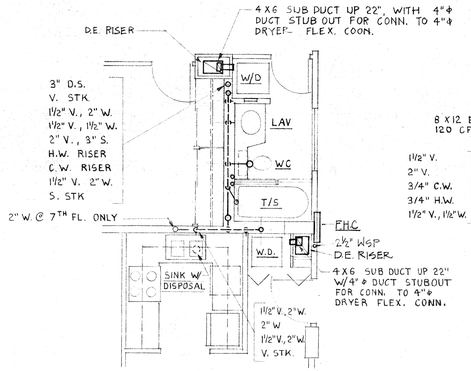
PROJECT NO. 3707-10-3

SHEET NO. M-6 OF SHEETS

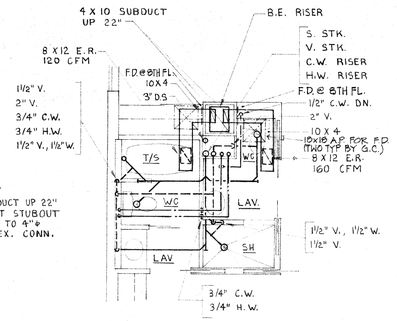




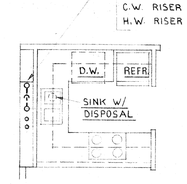
BATH DETAIL PLAN (1) M-7
SCALE : 1/4" = 1'-0"



KITCHEN DETAIL PLAN (2) M-7
SCALE : 1/4" = 1'-0"

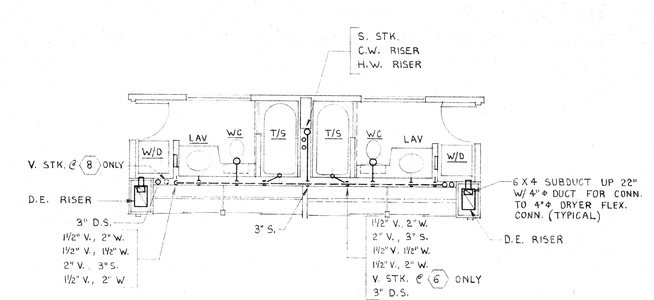


BATH & KITCHEN DET. PLAN (3) M-7
SCALE : 1/4" = 1'-0"

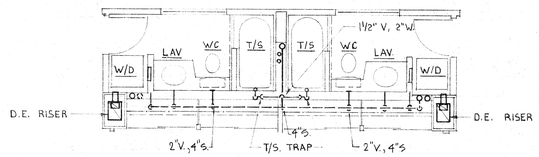


BATH DETAIL PLAN (4) M-7
SCALE : 1/4" = 1'-0"

KITCHEN DETAIL PLAN (5) M-7
SCALE : 1/4" = 1'-0"

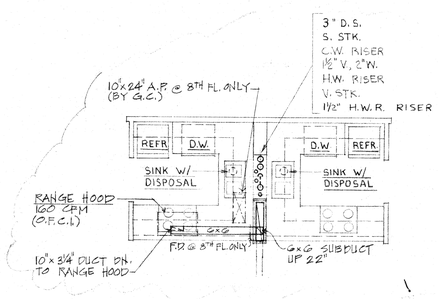


BATH DETAIL PLAN (6) M-7
SCALE : 1/4" = 1'-0"

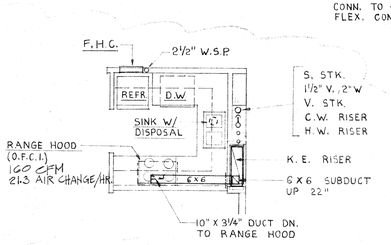


NOTE: SIMILAR TO DET. PLAN 6/M-7 EXCEPT AS NOTED

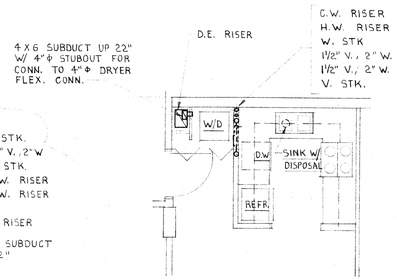
BATH DETAIL PLAN (7) M-7
SCALE : 1/4" = 1'-0"



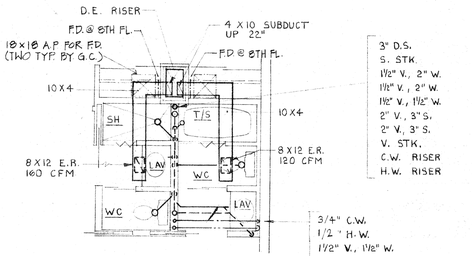
KITCHEN DETAIL PLAN (8) M-7
SCALE : 1/4" = 1'-0"



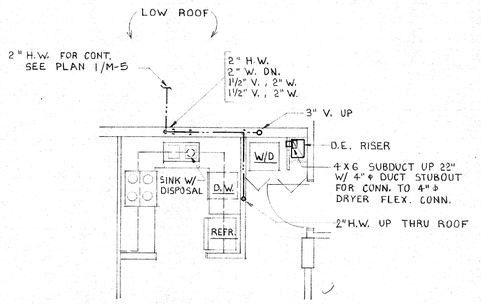
KITCHEN DETAIL PLAN (9) M-7
SCALE : 1/4" = 1'-0"



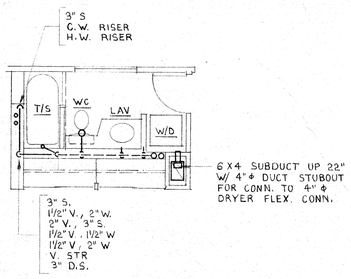
KITCHEN DETAIL PLAN (10) M-7
SCALE : 1/4" = 1'-0"



BATH DETAIL PLAN (11) M-7
SCALE : 1/4" = 1'-0"



KITCHEN DETAIL PLAN (12) M-7
SCALE : 1/4" = 1'-0"



BATH DETAIL PLAN (13) M-7
SCALE : 1/4" = 1'-0"

REVISIONS			
REV.	DATE	DESCRIPTION	BY
5	5/24/79	BLDG. DEPT. COMMENTS	E.P.

LOUIS T. L. CHENG REGISTERED PROFESSIONAL ENGINEER No. 3684 HAWAII, U.S.A.

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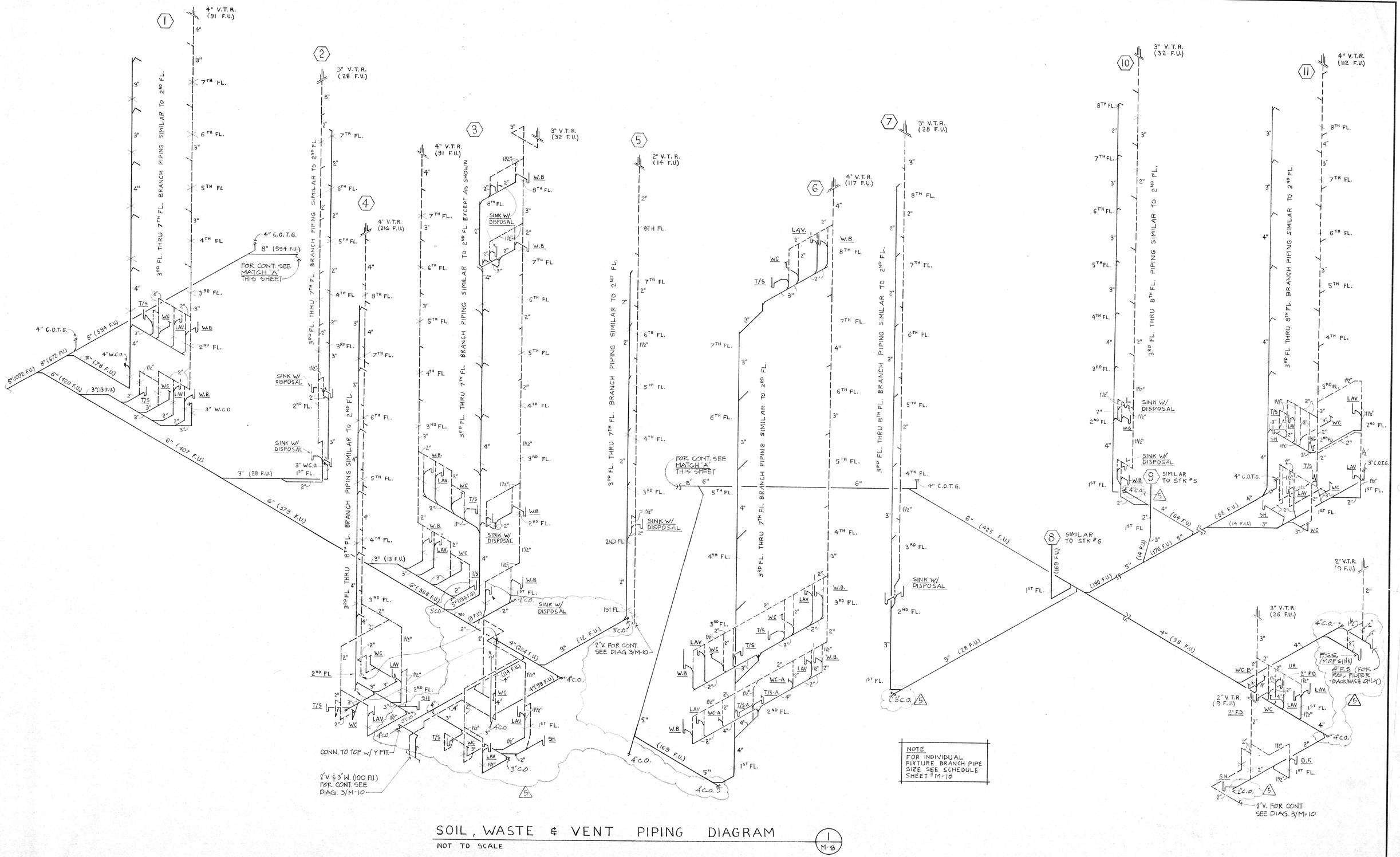
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	E.P. / B.H.
DRAWN BY	E.P. / J.K. / F.B.
CHECKED BY	L.C.
DATE	6-22-79
PROJECT NO.	3707-10-3

● DETAIL PLANS

SHEET NO. M-7 OF SHEETS



SOIL, WASTE & VENT PIPING DIAGRAM

NOT TO SCALE

1 / M-8

REVISIONS			
REV.	DATE	DESCRIPTION	BY
5	9/24/79	BLDG. DEPT. COMMENTS	E.P.

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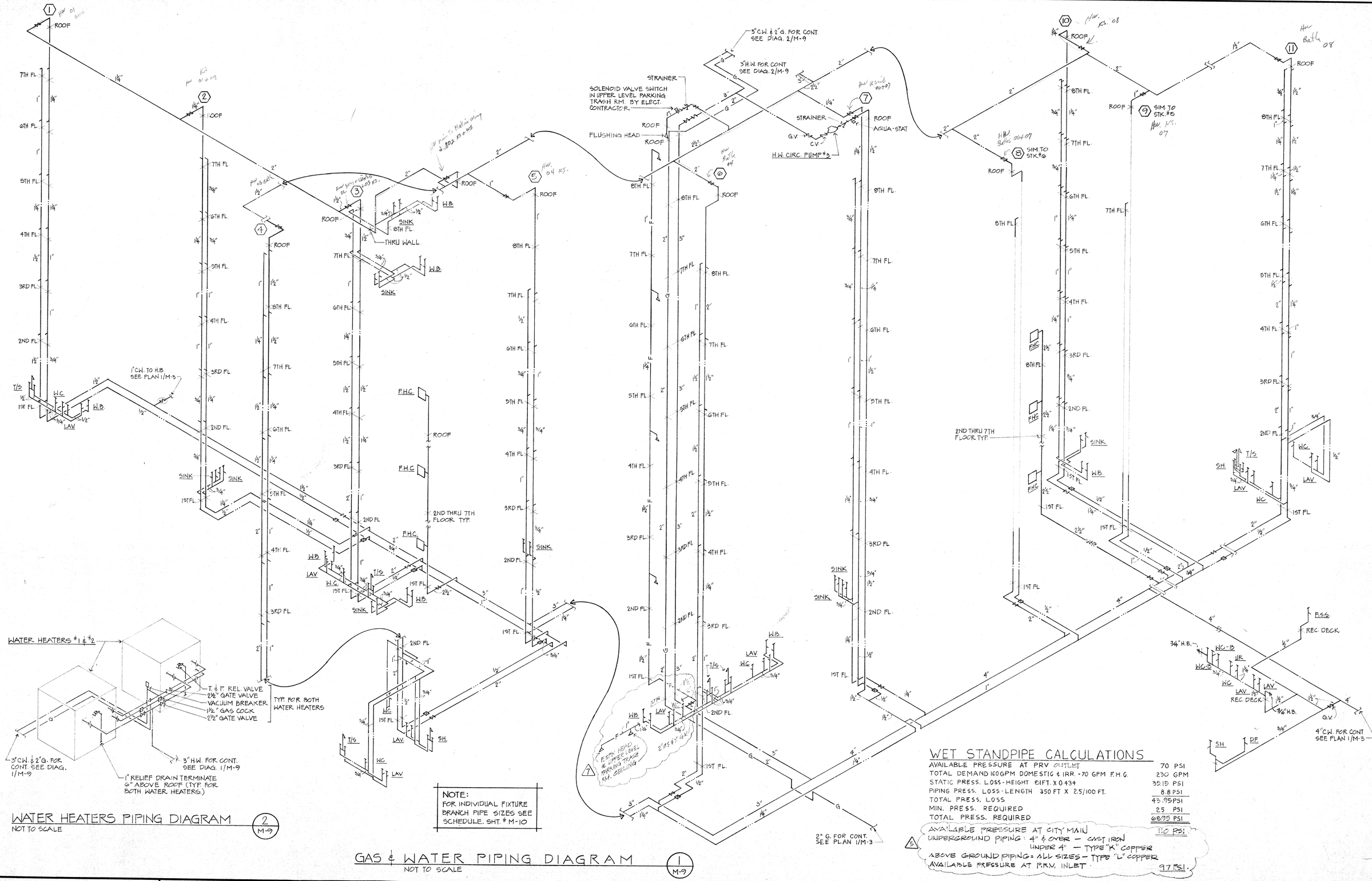
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	E.P./P.H.
DRAWN BY	E.P./J.K./P.B.
CHECKED BY	L.C.
DATE	6-22-79
5	

● SOIL, WASTE & VENT PIPING DIAGRAM

PROJECT NO. 3707-10-3

SHEET NO. M-8 OF SHEETS



WATER HEATERS PIPING DIAGRAM (2/M-9)
NOT TO SCALE

NOTE:
FOR INDIVIDUAL FIXTURE BRANCH PIPE SIZES SEE SCHEDULE. SHT. # M-10

GAS & WATER PIPING DIAGRAM (1/M-9)
NOT TO SCALE

WET STANDPIPE CALCULATIONS

AVAILABLE PRESSURE AT PRV OUTLET	70 PSI
TOTAL DEMAND 160 GPM DOMESTIC & IRR. - 70 GPM F.H.C.	230 GPM
STATIC PRESS. LOSS-HEIGHT 81 FT. X 0.434	35.15 PSI
PIPING PRESS. LOSS-LENGTH 350 FT X 2.5/100 FT.	8.8 PSI
TOTAL PRESS. LOSS	43.95 PSI
MIN. PRESS. REQUIRED	25 PSI
TOTAL PRESS. REQUIRED	68.95 PSI
AVAILABLE PRESSURE AT CITY MAIN	110 PSI
UNDERGROUND PIPING: 4" & OVER — CAST IRON; UNDER 4" — TYPE "K" COPPER	
ABOVE GROUND PIPING: ALL SIZES — TYPE "L" COPPER	
AVAILABLE PRESSURE AT P.R.V. INLET	97 PSI.

REVISIONS			
7	7/15/80	REVISED PARKING	E.P.
5	8/24/79	BLDG. DEPT. COMMENTS	E.P.
REV.	DATE	DESCRIPTION	BY

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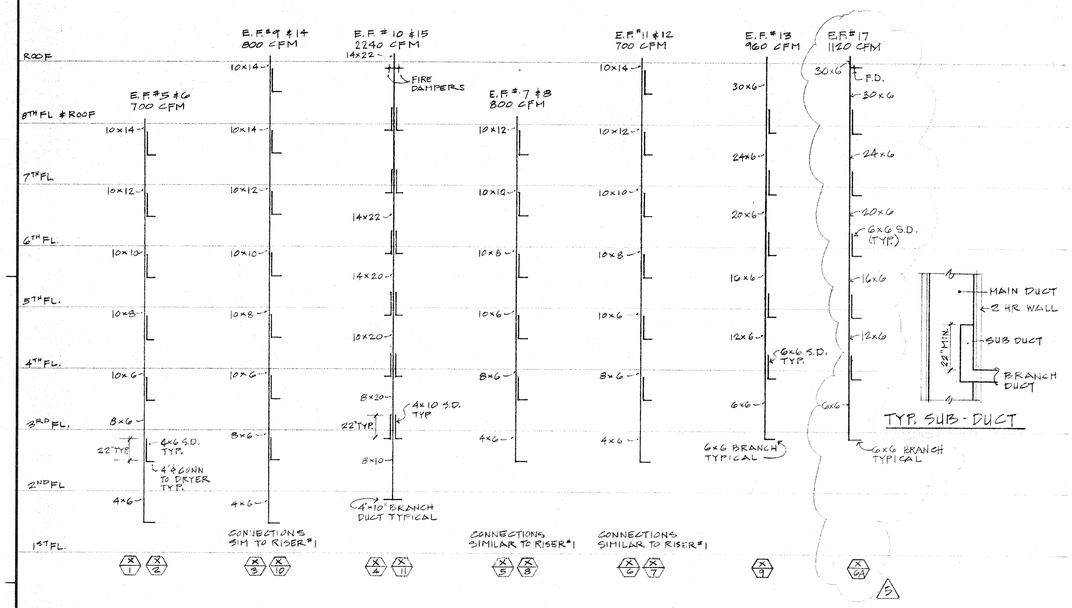
PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

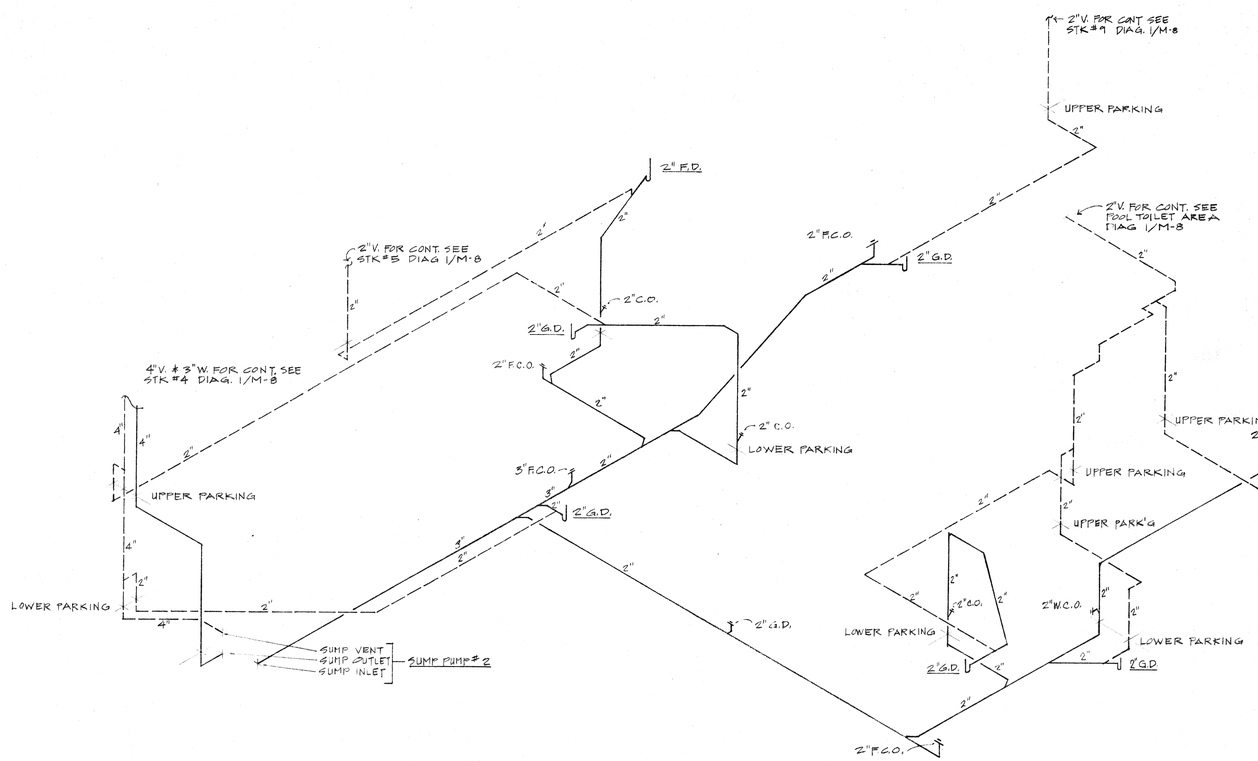
DESIGNED BY B.H./E.P.
DRAWN BY J.K.
CHECKED BY L.C.
DATE 6-22-79
GAS & WATER PIPING DIAGRAM
PROJECT NO. 3707-10-3
SHEET NO. M-9 OF SHEETS



EXHAUST RISER DIAGRAM

NOT TO SCALE

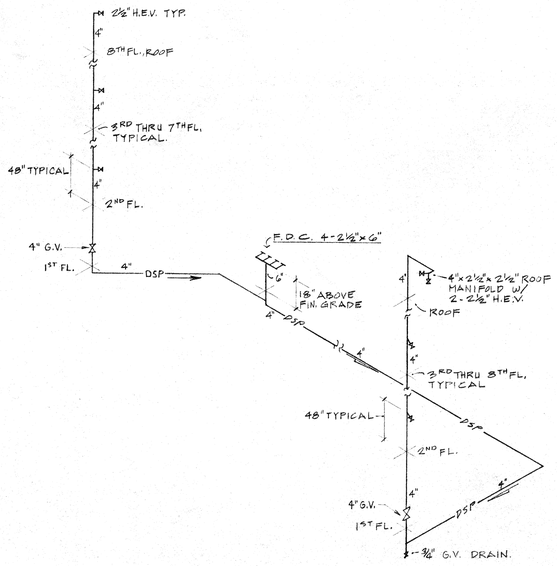
1 / M-10



PARKING - WASTE & VENT PIPING DIAGRAM

NOT TO SCALE

3 / M-10



D.S.P. DIAGRAM

NOT TO SCALE

2 / M-10

FIRE PROTECTION EQUIPMENT DESCRIPTION

1. FIRE DEPARTMENT CONNECTION (F.D.C.)
   POTTER ROEMER CO. OR POWHATTEN CO. CAST BRONZE BODY UNDERWRITERS' LABELED FOUR WAY INLET CONNECTIONS WITH 6" OUTLET BY FOUR 2½" INLET SNOOTS WITH NATIONAL STANDARD HOSE THREAD, CLAPPER TYPE INDEPENDENT CHECK VALVES WITH GROUND SEATS, SNOOTS PLUGS WITH CHAIN, NAMEPLATE LETTERED "STANDPIPE FIRE DEPARTMENT CONNECTION."
2. HOSE END VALVES (TYPICAL)
   POTTER ROEMER CO. OR POWHATTEN CO. 2½" X 2½" 300 LBS. NON-RISING STEM UNDERWRITERS' APPROVED BRUSHED FINISH BRONZE HOSE GATE VALVE WITH CAP AND CHAIN AND WITH NATIONAL STANDARD HOSE THREAD MALE OUTLET.
3. ROOF MANIFOLD
   POTTER ROEMER CO. OR POWHATTEN CO. 2 WAY 4" X 2½" X 2½" PLAIN FINISH CORROSION RESISTANT BRONZE TWO-WAY ROOF CONNECTION.
4. STANDPIPE RISER VALVE
   LUNKENHEIMER NO. 1436 IRON BODY BRONZE MOUNTED, 300 PSI, W.O.G. WITH FLANGED ENDS.
5. DRAIN VALVE
   LUNKENHEIMER NO. 3151 BRONZE, UNION BONNET 300 PSI, W.O.G. WITH SCREWED ENDS & ADAPTOR TO HOSE THREADS.
6. FIRE HOSE CABINET (SEMI-RECESSED)
   POTTER ROEMER NO. AL 1026 SEMI-RECESSED MOUNTED, OR EQUIVALENT CABINETS AS MANUFACTURED BY W.D. ALLEN CO., ELKHART, SIERRA FIRE EQUIPMENT CO., STANDARD FIRE WEST CO., OR GENERAL FIRE EXTINGUISHER CORP. WITH FIG. NO. 4070, 1½" UNDERWRITERS LABELED ROUGH BRASS 300-lb. ANGLE VALVE, WITH NATIONAL STANDARD THREADS, FIG. NO. U-70 UNDERWRITERS LABELED RED ENAMELED RACK WITH RACK NIPPLE. 100 FEET OF UNDERWRITERS LABELED 1½" LINED SUPERFLEX HOSE, FIG. NO. 2962 FOG NOZZLE, PRESSURE RESTRICTING DISC., AND #3005, 10 lb. DRY CHEMICAL EXTINGUISHER.
7. FIRE EXTINGUISHER CABINET (SURFACE)
   POTTER-ROEMER NO. 1754 10 LB ABC EXTINGUISHER, UL RATING OF 4A: 60 B:C, BREAK GLASS DOOR WITH LOCK.

PLUMBING FIXTURE LOCAL CONNECTION SCHEDULE

FIXTURE DESCRIPTION	ABREVIATION	C.W SIZE	H.W SIZE	SOIL OR WASTE SIZE	VENT SIZE	REMARKS
WATER CLOSET	WC	1/2"	—	3"	2"	4" SOIL AT POOL TOILET.
WATER CLOSET	WC "A"	1/2"	—	4"	2"	WALL HUNG
WATER CLOSET	WC "B"	1/2"	—	4"	2"	PARAPLEGIC @ POOL TOILET
LAVATORY	LAV	1/2"	1/2"	1½"	1½"	
TUB/SHOWER	T/S	1/2"	1/2"	2"	1½"	
SHOWER	SH	1/2"	1/2"	2"	1½"	
SINK	SK.	1/2"	1/2"	2"	1½"	DISHWASHER H.W. & WASTE CONN., DISPOSAL INSTALLATION, REFRIGERATOR ICE MAKER CONNECTION.
FLOOR DRAIN	F.D.	—	—	2"	1½"	
GARAGE DRAIN	G.D.	—	—	2"	2"	
URINAL	U.R.	3/4	—	2"	1½"	
ROOF DRAIN	R.D.	—	—	—	—	SIZE AS NOTED
FLOOR SINK	F.S.	—	—	4"	2"	
WASHER BOX	W.B.	1/2"	1/2"	2"	1½"	
AREA DRAIN	A.D.	—	—	—	—	SIZE AS NOTED
DRINKING FOUNTAIN	D.F.	1/2"	—	1½"	1½"	
FLOOR SERVICE SINK	F.S.S.	1/2"	—	2"	1½"	

REVISIONS			
REV.	DATE	DESCRIPTION	BY
3	8/24/79	BLDG. DEPT. COMMENTS	G.P.

LOUIS S. CHENEY REGISTERED PROFESSIONAL ENGINEER No. 3684 HAWAII, U.S.A.

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DMJM

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PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY EP/BH
DRAWN BY BH
CHECKED BY L.C.
DATE 6-22-79
3

● DUCT & PLUMBING DIAGRAMS.

PROJECT NO. 3797-10-3

SHEET NO. M-10 OF SHEETS

EXHAUST FAN SCHEDULE

UNIT NO.	MANUFACTURER AND MODEL	LOCATION	SERVICE	TYPE	CFM	S.P. INCHES	WHEEL DIAMETER INCHES	TIP SPEED FPM	OUTLET VELOCITY FPM	DRIVE	FAN RPM	H.P.	VOLTS	ϕ	OPR. WT. POUNDS	REMARKS
E F 1	GREENHECK SPN - 36	LOWER PARKING	PARKING VENTILATION	PROPELLER	10280	1/8	36"	4524	—	BELT	480	3/4	115	1	150	12.4 SONES. ← DELETE 7
E F 2	GREENHECK SQB - 10 - 4	UPPER PARKING	TRASH RM EXH.	IN LINE CENTRIFUGAL	600	1/4	10"	2871	—	BELT	1020	1/4	115	1	100	
E F 3 & 4	GREENHECK SPN - 36	UPPER PARKING	PARKING VENTILATION	PROPELLER	9325	1/8	36"	4200	—	BELT	450	1/2	115	1	150	10.7 SONES. ← DELETE 7
E.F. 5, 11, 12	GREENHECK CBE - 10 - 4	ROOF	CLOTHES DRYER EXH.	ROOF CENTRIFUGAL	800	1/4	10"	3400	—	BELT	1175	1/4	115	1	100	7.0 SONES.
E.F. 7, 8, 9, 14	ILG BCF - 1225 AG	ROOF	CLOTHES DRYER EXH.	UTILITY CENTRIFUGAL	800	1/4	12"	3162	934	BELT	906	1/4	115	1	100	
E.F 10 & 15	GREENHECK CBE - 18 - 4	ROOF	BATH EXH.	ROOF CENTRIFUGAL	2240	3/8	18"	3440	—	BELT	710	1/4	115	1	150	8.0 SONES.
E. F. 13	ILG CBF 1225 AG	ROOF	KIT. EXH.	UTILITY CENTRIFUGAL	960	3/8	12"	3505	1116	BELT	1093	1/4	115	1	100	
E. F. 16	PENN ZEPHYR Z - 12	1ST FL.	LOBBY VENTILATION	IN LINE CEILING CENTRIFUGAL	800	1/4	—	—	—	DIRECT	1050	280 WATTS	115	1	40	4.2 SONES.
5 E.F. 17	GREENHECK CBE - 14 - 4	ROOF	KITCHEN EXHAUST	ROOF CENTRIFUGAL	1120	1/4	14"	2965	—	BELT	781	1/4	115	1	105	6.2 SONES

SUPPLY FAN SCHEDULE

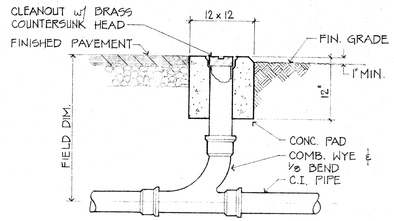
UNIT NO.	MANUFACTURER AND MODEL	LOCATION	SERVICE	TYPE	CFM	S.P. INCHES	WHEEL DIAMETER INCHES	TIP SPEED FPM	OUTLET VELOCITY FPM	DRIVE	FAN RPM	H.P.	VOLTS	ϕ	OPR. WT. POUNDS	REMARKS
7 S. F. 1 & 2	GREENHECK SQB - 24 - 10	LOWER PARKING	PARKING VENTILATION	IN LINE CENTRIFUGAL	4890	5/8	24"	4405	—	BELT	685	1	208	3	400	← DELETE
S. F. 3	GREENHECK SQB - 30 - 20	UPPER PARKING	PARKING VENTILATION	IN LINE CENTRIFUGAL	8500	5/8	30"	4650	—	BELT	580	2	208	3	600	
S. F. 4	GREENHECK SQB - 30 - 20	UPPER PARKING	PARKING VENTILATION	IN LINE CENTRIFUGAL	7630	5/8	30"	4490	—	BELT	560	2	208	3	600	← DELETE

WATER HEATER SCHEDULE

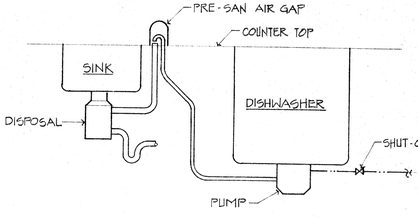
UNIT NO.	MANUFACTURER AND MODEL	LOCATION	SERVICE	RECOVERY GPH @ 70°	GAS INPUT MBTU	STOR. CAP. GAL.	GAS FLUE SIZE	OPR. WT. POUNDS	CIRC. PUMP	REMARKS	
1 & 2	RAYPAK HURRICANE MODEL 516	ROOF	DOMESTIC H. W.	664	516	—	—	500	1/2 H.P. 115 V., 1ϕ	RAYPAK E6 ELECTRIC IGNITION AGA CERTIFIED FOR OUTDOOR OPERATION	GEN. CONTR. SHALL PROVIDE 4" THK. CONC. PAD

PUMP SCHEDULE

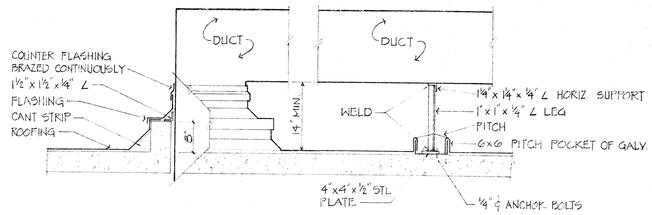
UNIT NO.	MANUFACTURER AND MODEL	LOCATION	SERVICE	TYPE	GPM	TOTAL DYNAMIC HEAD FT.	SUCT. SIZE INCHES	DISC. H SIZE INCHES	MIN. EFF. PERCENT	RPM	H.P.	VOLTS	ϕ	REMARKS
1	PACO NSC 2570-21 SIMPLEX SUMP PUMP	LOWER PARKING	STORM DRAIN LIFT	EXPLOSION PROOF SUBMERSIBLE	75	35	2½	2½	40	1750	3	208	3	
2	PACO NSC 2570-21 SIMPLEX SUMP PUMP	LOWER PARKING	SEWAGE LIFT	EXPLOSION PROOF SUBMERSIBLE	50	25	2½	2½	40	1750	1½	208	3	
3	B & G 1½" A	ROOF	H.W. CIRC	IN LINE CENTRIFUGAL	22	35	1½	1½	—		3/4	115	1	



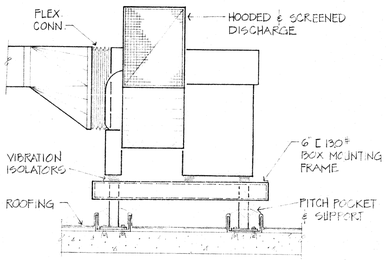
TYP. CLEANOUT TO GRADE DET. 1 / M-11
NOT TO SCALE



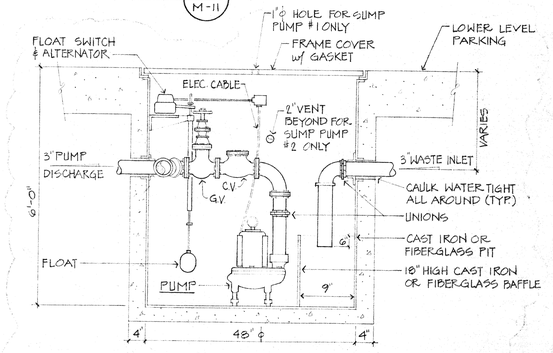
TYP. D.W. CONNECTION DETAIL 2 / M-11
NOT TO SCALE



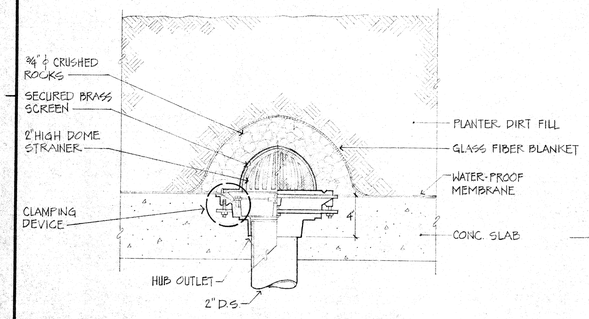
DUCT THRU ROOF & DUCT SUPPORT ON ROOF DETAIL 3 / M-11
NOT TO SCALE



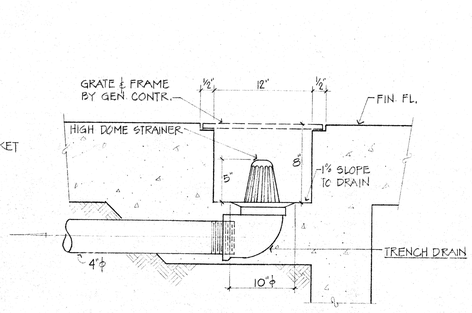
EXHAUST FAN MOUNTING DETAIL 4 / M-11
NOT TO SCALE



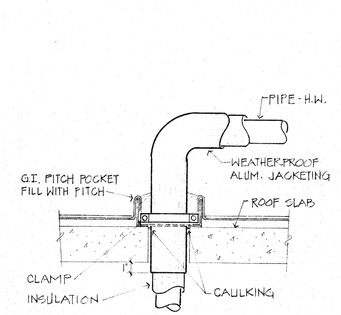
7 SIMPLEX SUMP PUMPS #1 & #2 DETAIL 5 / M-11
NOT TO SCALE



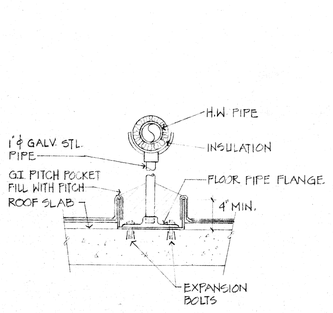
TYPICAL PLANTER DRAIN DETAIL 6 / M-11
NOT TO SCALE



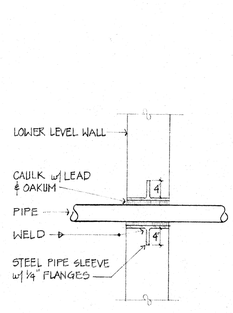
TRENCH DRAIN DETAIL 7 / M-11
NOT TO SCALE



PIPE THRU ROOF DETAIL 8 / M-11
NOT TO SCALE



ROOF PIPE SUPPORT DET. 9 / M-11
NOT TO SCALE



PIPE SLEEVE THRU EXTERIOR WALL BELOW GRADE DETAIL 10 / M-11
NOT TO SCALE

REVISIONS			
REV.	DATE	DESCRIPTION	BY
4	7/15/80	REVISED PARKING	E.P.
5	8/24/79	BLDG. DEPT. COMMENTS	E.P.

LOUIS T. L. CHENG REGISTERED PROFESSIONAL ENGINEER HAWAII, U.S.A. No. 3684

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

DMJM

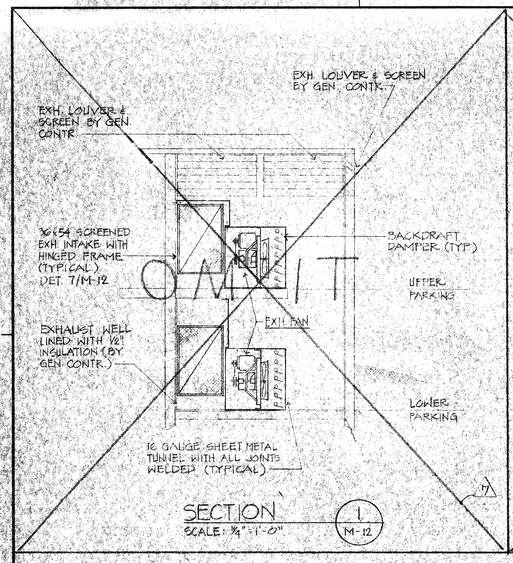
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

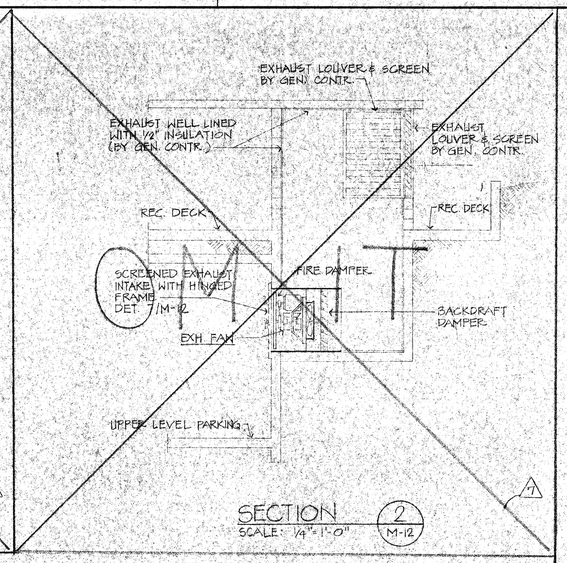
DESIGNED BY	B.H./E.P.
DRAWN BY	J.K.
CHECKED BY	L.C.
DATE	6-22-79
PROJECT NO.	3707-10-3

● SCHEDULE & DETAILS

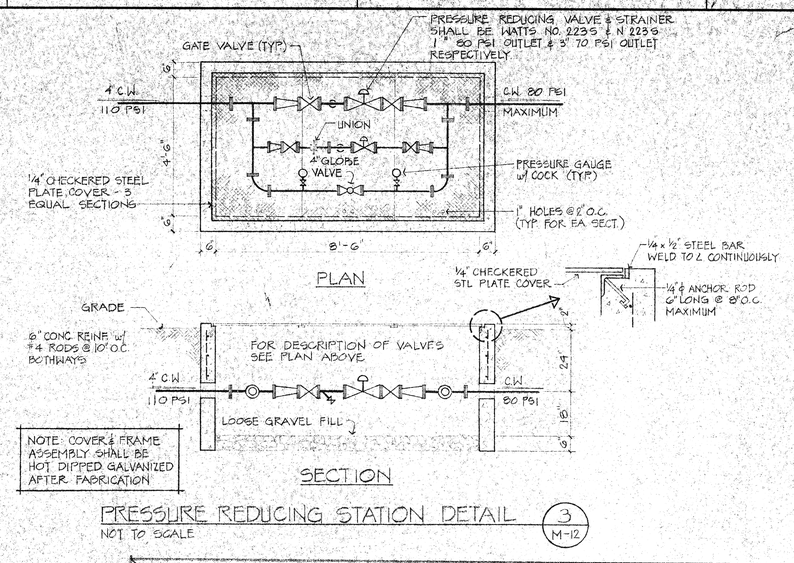
SHEET NO. M-11 OF SHEETS



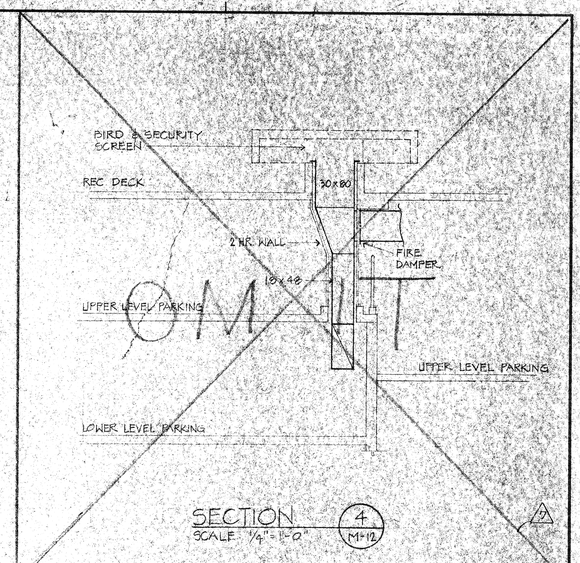
SECTION
SCALE: 3/4" = 1'-0"
1 M-12



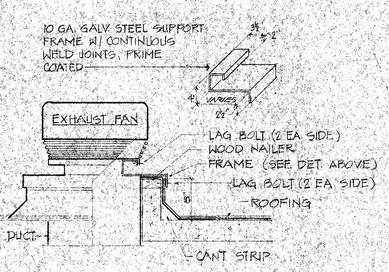
SECTION
SCALE: 1/4" = 1'-0"
2 M-12



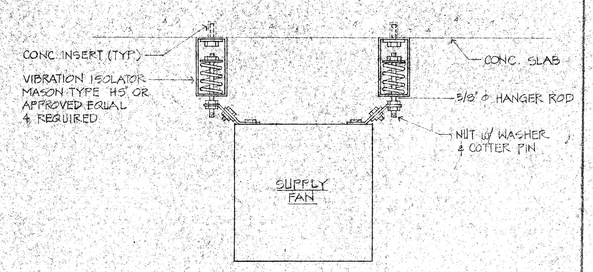
PRESSURE REDUCING STATION DETAIL
NOT TO SCALE
3 M-12



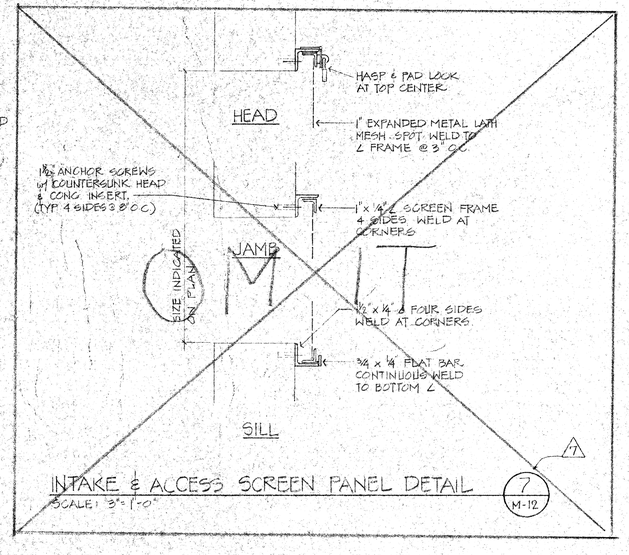
SECTION
SCALE: 1/4" = 1'-0"
4 M-12



TYP. EXHAUST FAN MOUNTING ON ROOF DETAIL
NOT TO SCALE
5 M-12



SUPPLY FAN MOUNTING DETAIL
NOT TO SCALE
6 M-12



INTAKE & ACCESS SCREEN PANEL DETAIL
SCALE: 3" = 1'-0"
7 M-12

REVISIONS		
REV.	DATE	DESCRIPTION
1	9/19/80	REVISED PARKING

BY

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
LOUIS T. C. CHENG REGISTERED PROFESSIONAL ENGINEER No. 3561 HAWAII, U.S.A.

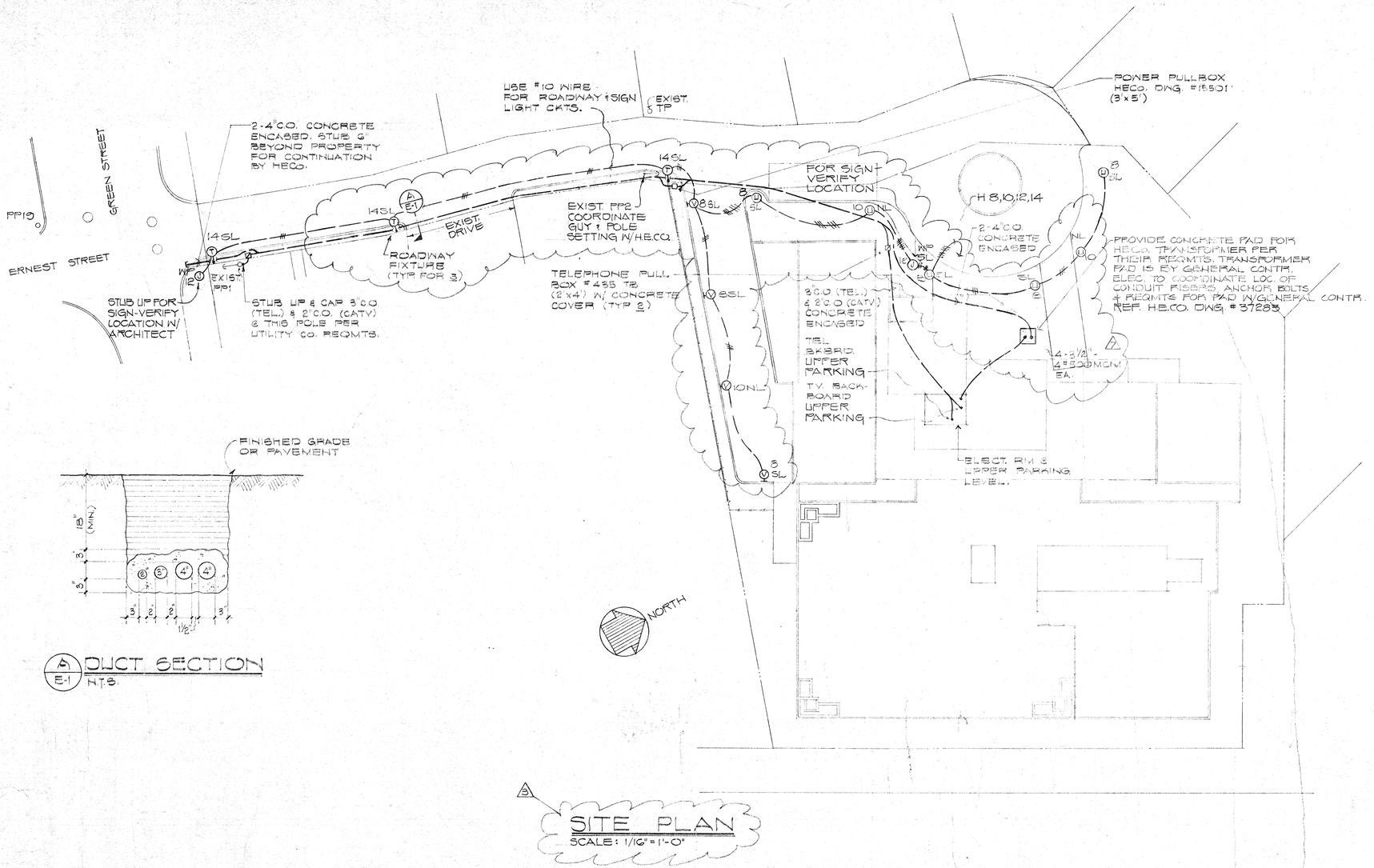
DMJM
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 219, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE: 538-6747
PLANNING • ARCHITECTURE • ENGINEERING • SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	P.H. / E.P.
DRAWN BY	J.K.
CHECKED BY	L.C.
DATE	6 22 78
PROJECT NO.	3707-10-3

DETAILS

SHEET NO. M-12
OF SHEETS



A / E-1 DUCT SECTION
N.T.S.

A SITE PLAN
SCALE: 1/16" = 1'-0"

SYMBOLS

- LIGHTING PANEL
- TELEPHONE CABINET OR BACKBOARD
- 3 O L — FLUORESCENT LIGHT FIXTURE-TYPE "L", CKT. #3
- K — FLUORESCENT STRIP FIXTURE-TYPE "K"
- N — INCANDESCENT LIGHT FIXTURE-CEILING MTD., TYPE "N"
- H — INCANDESCENT LIGHT FIXTURE-WALL MTD, TYPE "H"
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE-ONE SIDE SWITCHED
- DUPLEX RECEPTACLE W/ GFI PROTECTION
- A.C. OUTLET
- J — JUNCTION BOX
- FIRE ALARM SYSTEM SMOKE DETECTOR, CEILING MTD.
- S — APT. SMOKE DETECTOR, EDWARDS #217T, WALL MTD. 5" BELOW CL.G.
- TELEPHONE OUTLET
- TV OUTLET
- RANGE OUTLET
- DRYER OUTLET
- M — MOTOR
- DISCONNECT SWITCH (HP RATED)
- MOTOR STARTER (BY MECH.)
- FIRE ALARM PULL STATION
- FIRE ALARM BELL
- S — SINGLE POLE SWITCH - 3 = 3 WAY
- WP — WEATHERPROOF
- C.O. — CONDUIT ONLY
- N.L. — NIGHT LIGHT DUSK TO 12:00 MIDNIGHT
- CONDUIT IN WALL OR CEILING - 3/4"-2#12 UNLESS NOTED
- CONDUIT IN FLOOR OR UNDERGROUND - 3/4"-2#12 UNLESS NOTED
- CONDUIT EXPOSED - 3/4"-2#12 UNLESS NOTED
- L-1 — HOMERUN TO PANEL "L", CKT. #1
- TV — TELEPHONE JUNCTION BOX - SEE TEL. RISER
- TV — TV JUNCTION BOX - SEE TV RISER
- SL — SECURITY LIGHT - DUSK TO DAWN

NOTES:

1. WIRING DEVICES SHALL BE INTERMEDIATE GRADE.
2. WIRE SIZES SHOWN ARE BASED ON COPPER CONDUCTORS. ALUMINUM WIRE MAY BE USED IN ACCORDANCE WITH THE TABLE BELOW* TERMINATIONS AND SPLICES SHALL BE HIGH COMPRESSION, INDENTER, HY-PRESS TYPE, AND SHALL BE INSTALLED AND CHECKED PER MANUFACTURER'S RECOMMENDATIONS.

COPPER	ALUMINUM
#2	#1/0
#1	#2/0
#1/0	#3/0
#2/0	#4/0
#3/0	250 MCM
#4/0	300 MCM
250 MCM	400 MCM
300 MCM	500 MCM
350 MCM	500 MCM
400 MCM	600 MCM
500 MCM	750 MCM OR 2 EA 250 MCM

* FINAL CONNECTION TO ELEVATOR CONTROLLER SHALL BE COPPER

REVISIONS			
A	7-15-80	REVISED	
B	6-22-79	D.L.U. REVISION	T.K.
REV.	DATE	DESCRIPTION	BY

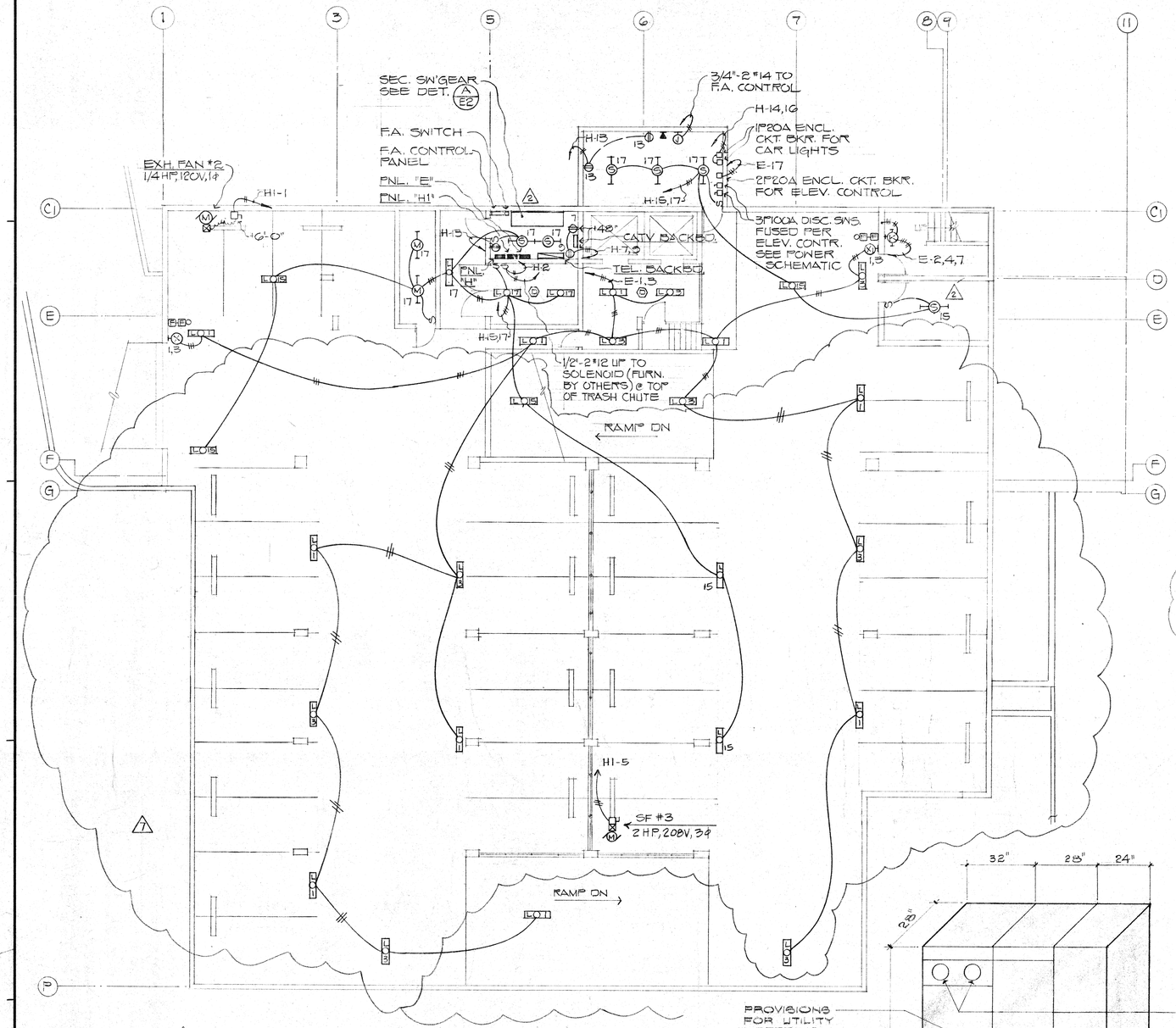
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.
ALBERT T. KUBOYAMA, JR. REGISTERED PROFESSIONAL ENGINEER No. 3182 HAWAII, U.S.A.

DMJM
DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	JSA
DRAWN BY	DTC/LFT
CHECKED BY	DVM
DATE	10-16-78
PROJECT NO.	3707-10-3

SITE PLAN AND DETAILS
SHEET NO. E-1
OF SHEETS


SEC. SW'GEAR SEE DET. A/E2
3/4"-2 #14 TO F.A. CONTROL
H-14,16
F.A. SWITCH
F.A. CONTROL PANEL
PNL. "E"
PNL. "H"
1P 20A ENCL. CKT. BKR. FOR CAR LIGHTS
E-17
2P 20A ENCL. CKT. BKR. FOR ELEV. CONTROL
3P 100A DISC. SWS. FUSED PER ELEV. CONTR. SEE POWER SCHEMATIC
EXH. FAN #2 1/4 HP, 120V, 1Φ
H1-1
6'-0"
H-15
H-15,17
H-13
148"
CATV BACKBD.
H-7,9
TEL. BACKBD.
E-1,3
E-2,4,7
1/2"-2 #12 UP TO SOLENOID (FURN. BY OTHERS) @ TOP OF TRASH CHUTE
RAMP DN
RAMP ON
H1-5
SF #3 2 HP, 208V, 3Φ
LO1
LO3
LO5
LO7
LO9
LO11
LO13
LO15
LO17
LO19
LO21
LO23
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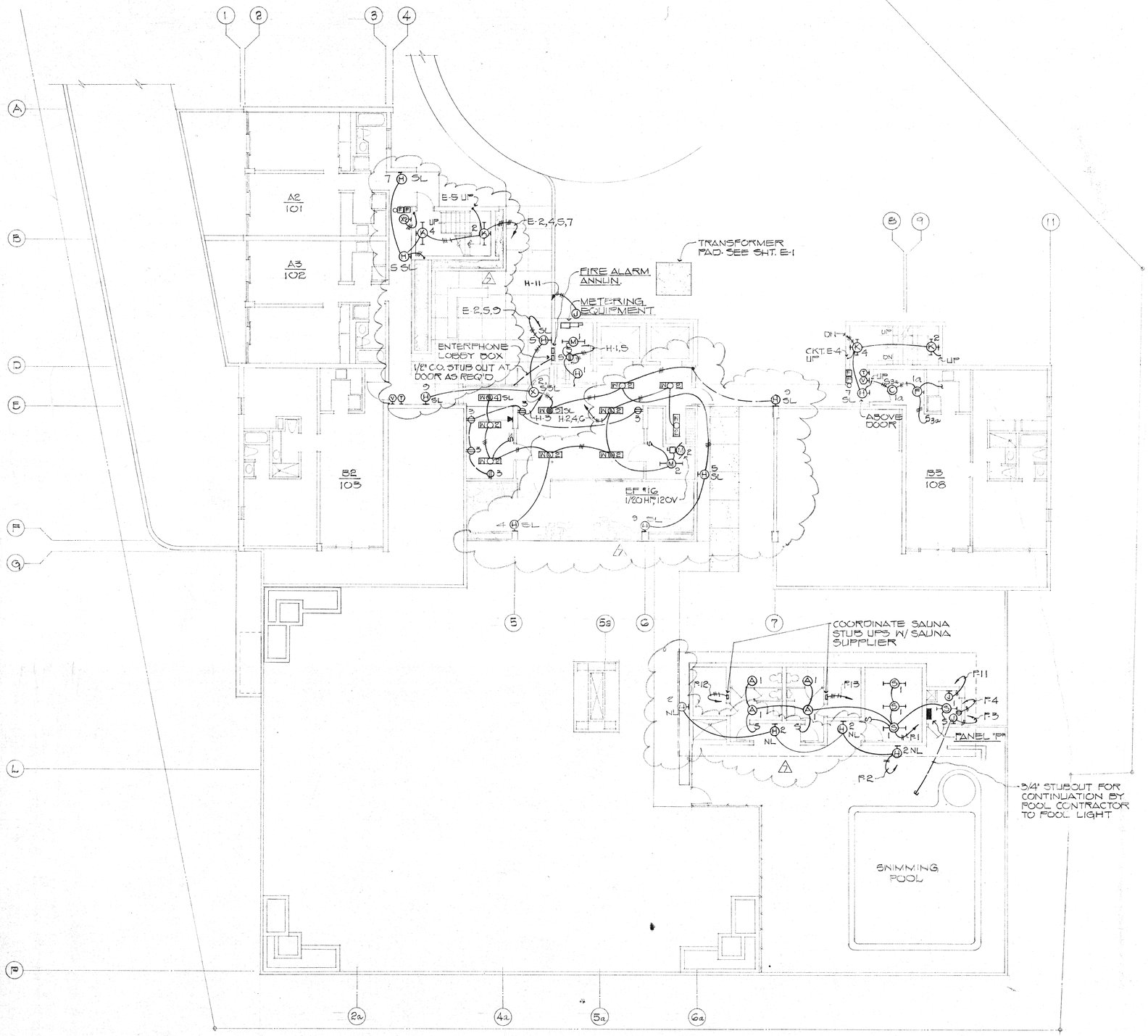
LO79



LIGHT FIXTURE SCHEDULE

TYPE	LAMP	DESCRIPTION	MOUNTING
A	2-60W I.F.	10¢ OPAL DRUM SEA GULL #7550	SURFACE CEILING
B	6-40W I.F.	36" BENT GLASS VIRDEN #VG666	WALL ABOVE MIRROR
C	2-60W I.F.	12¢ OPAL DRUM SEA GULL #7581	SURFACE CEILING
D	4-40W I.F.	24" BENT GLASS VIRDEN #VG664	WALL ABOVE MIRROR
E	1-75W I.F.	9¢ DROP OPAL VIRDEN #V-8 V-170	RECESSED CEILING
F	1-60W I.F.	RECTANGULAR OPAL STAFF #7402	WALL +6'-0"
G	1-30W T-8	36" FLUORESCENT W/ ACRYLIC LENS, INTEGRAL SWITCH ALKCO #215-6W	UNDER CABINET
H	1-60W I.F. HYTRON SMARKIF	VANDAL-PROOF OPAL RECTANGLE MARCO #N1	WALL +6'-0" OR SURF. CEILING
K	1-20W T-12 T.S. W.W.	2' STRIP LITHONIA #S120TS	WALL +7'-0"
L	1-40W T-12 T.S. W.W.	4' FLUORESCENT W/ ACRYLIC ENCLOSURE LITHONIA #STCB140AW	SURFACE CEILING
M	1-40W T-12 R.S. W.W.	4' STRIP LITHONIA	SURFACE CEILING
N	1-100W I.F.	PORCELAIN SOCKET BRYANT #5221	SURF. CLG OR AS NOTED
P	1-40W T-12 R.S. W.W.	4' SIDEMOUNT STRIP W/ FULL GASKET AROUND MTG. FLANGE GLOBE ILLUM #1211-4R	RECESSED IN RAILING SEE ARCH.
Q			
R	1-60W I.F.	CYLINDER BRACKET, BLACK BAFFLE, BRONZE FINISH - MARCO #B46M	WALL +7'-0"
S	2-40W T-12 R.S. W.W.	4' STRIP LITHONIA #S240 HRS	SURFACE CEILING
T	1-250W M.V. COLOR IMPR. 120V	MERC. VAPOR LUMINAIRE W/ 10' ARM ON SQ 16" STEEL POLE W/ PHOTO CELL, BRONZE FINISH ARCH. AREA LIGHTING #ALG175H-250MV-MBE	CONC. BASE PER MFR'S REQMTS.
U	1-100W M.V COLOR IMPR 120V	MERC. VAPOR BOLLARD FIXTURE W/ CLEAR ACRYLIC LENS ARCH. AREA LIGHTING #AG03-100MV-BB	CONC. BASE PER MFR'S REQMTS.
V	1-100W M.V. COLOR	MERCURY VAPOR STEP LIGHT MOLDCAST #V-387-HL-BRONZE	RECESSED +12"
W	2-40W T-12 R.S. W.W.	4' FLUORESCENT WRAP AROUND FIXTURE LITHONIA #SC-240 BOA	SURFACE CEILING
X	2-20W T-6½	EXIT SIGN-SINGLE FACE, 2 CIRCUIT ARROWS AS SHOWN DEVINE #UB120-SR-V2	SURFACE CEILING
X_1	2-20W T-6½	EXIT SIGN-SINGLE FACE, 2 CIRCUIT ARROWS AS SHOWN DEVINE #UB120-SR-V2	WALL +7'-6"
X_2	2-20W T-6½	EXIT SIGN-DOUBLE FACE, 2 CIRCUIT ARROWS AS SHOWN DEVINE #UB120-SR-SR-V2	WALL +7'-6"

FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

REVISIONS			
2	7-15-80	REVISED	
1	6-22-79	D.L.U. REVISIONS	TK
REV.	DATE	DESCRIPTION	BY

ALBERT F. KILBURG JR. REGISTERED PROFESSIONAL ENGINEER No. 3183 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

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Telephone: 808/538-6747

Planning
Architecture
Engineering
Systems

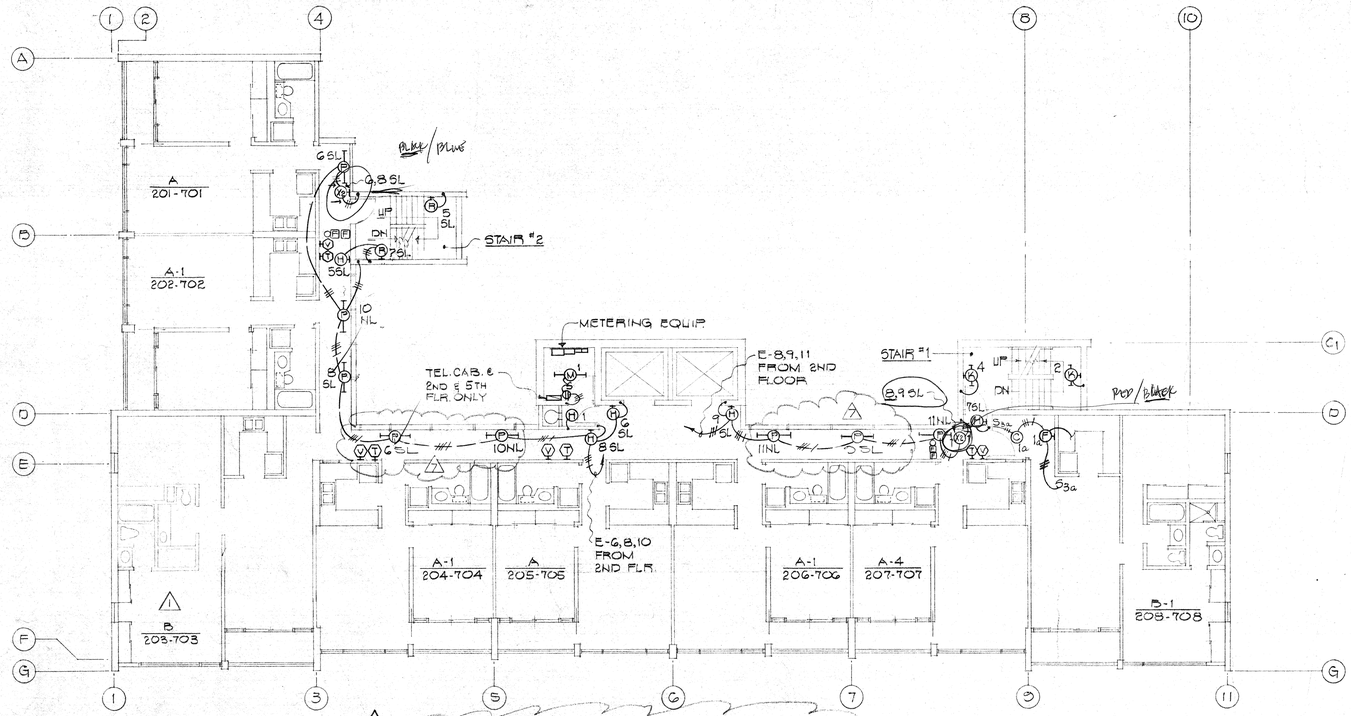
DMJM Hawaii

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

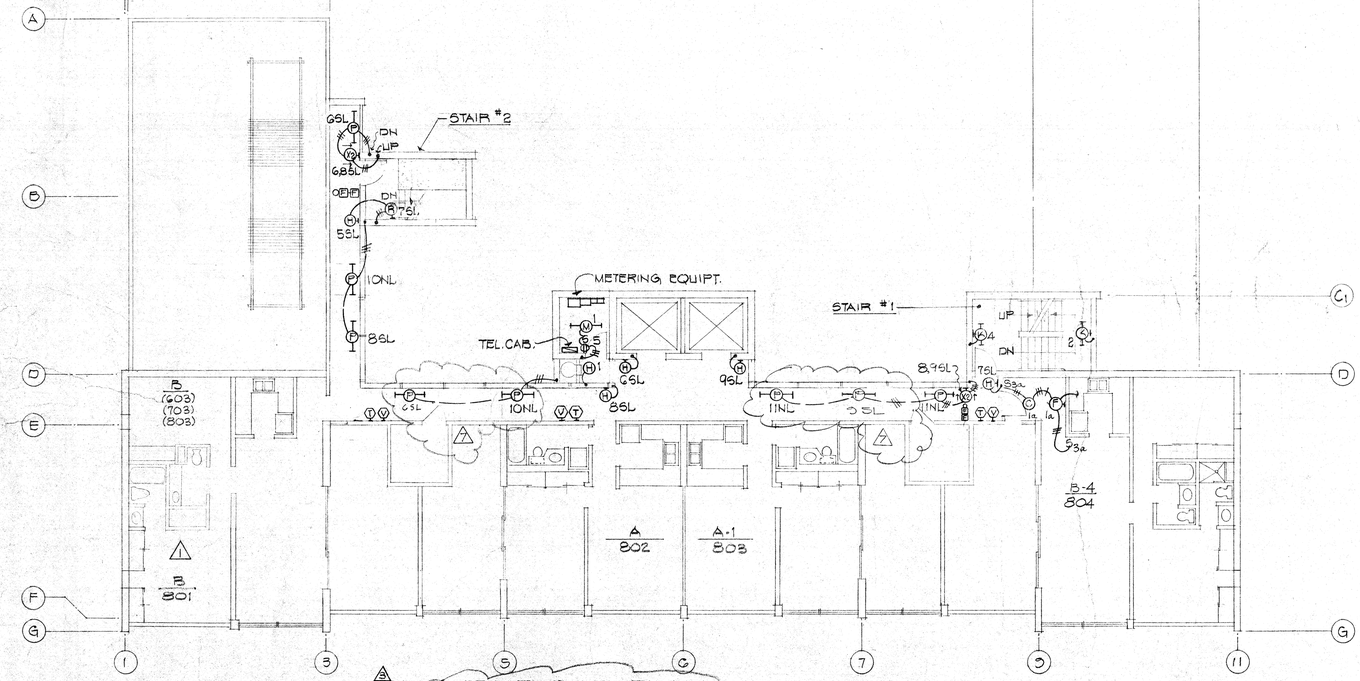
DESIGNED BY	JBA
DRAWN BY	DTC
CHECKED BY	AFK
DATE	JUNE 22, 1979
PROJECT NO.	3707-10-3
SHEET NO.	E-3
OF	SHEETS

● FIRST FLOOR ELECT PLAN



2ND THRU 7TH FLOOR PLAN

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



8TH FLOOR PLAN

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

REVISIONS			
3	7-15-80	REVISED	
2	6-22-79	D.L.U. REVISIONS	TK
1	12-18-78	BLDG. DEPT. CORRECTIONS	THB
REV.	DATE	DESCRIPTION	BY

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DMJM

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WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747

PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

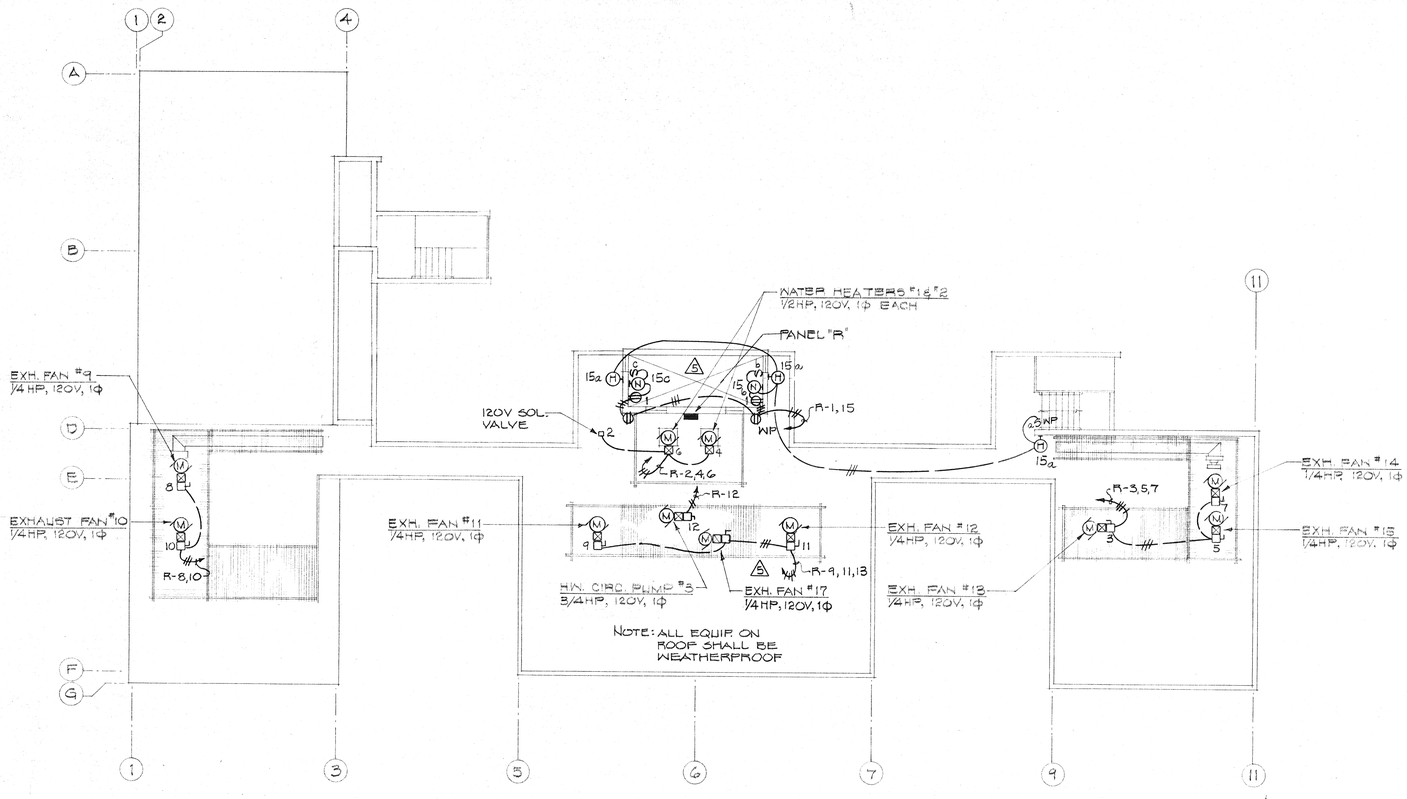
DESIGNED BY	USA
DRAWN BY	DTC
CHECKED BY	AFK
DATE	10-16-78

2ND THRU 5TH; 6TH THRU 8TH FLR. PLANS

SHEET NO. E-4

PROJECT NO. 3707-10-3

OF SHEETS



ROOF PLAN

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

REVISIONS			
5	8-24-79	PAN-BLDG DEPT. COMMENTS LIGHTS-DIV. OF INDUST. SAFETY COMMENTS	TMB
4	6-22-79	D.L.U. REVISIONS	TK
REV.	DATE	DESCRIPTION	BY

ALBERT F. KILBURG, JR. REGISTERED PROFESSIONAL ENGINEER No. 3183 HAWAII, U.S.A.

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DMJM Hawaii

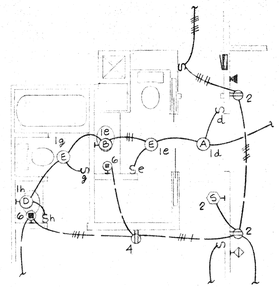
THE BEL AIR PLAZA

1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	JSA
DRAWN BY	SYH
CHECKED BY	DVM
DATE	JUNE 22, 1979
PROJECT NO.	3707-10-3

● ROOF PLAN

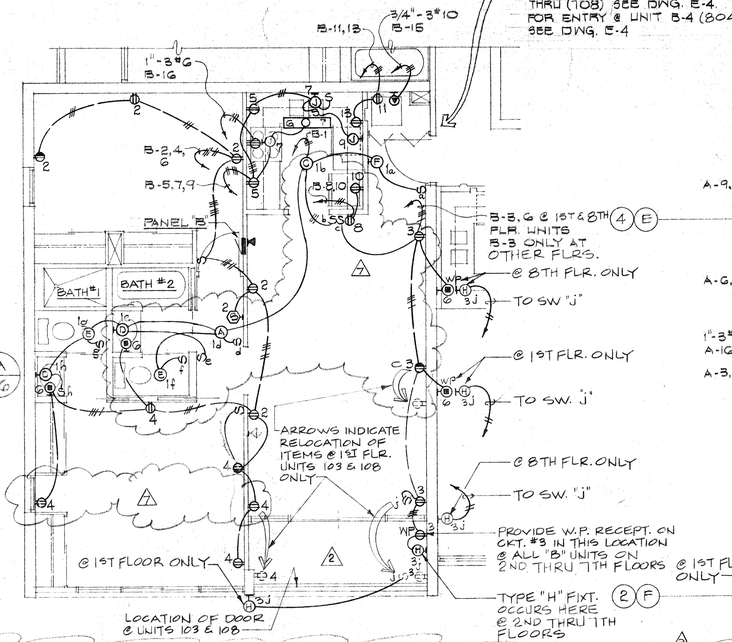
SHEET NO. E-5 OF SHEETS



1 BATH #1 & #2 PLAN @ UNITS 103 THRU 801 (A / E-6)

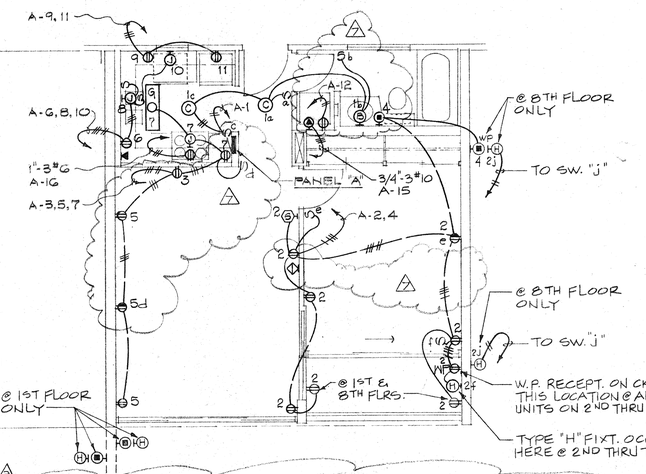
NOTES

1. COORDINATE LOCATION OF CEILING LIGHTS WITH MECH. DRAWING BEFORE ROUGH-IN.
2. OUTLET BOXES IN ADJACENT APARTMENTS SHALL BE OFF-SET FROM EACH OTHER A MINIMUM OF 12" HORIZONTALLY-TYPICAL ALL SUCH LOCATIONS.



3 FLOOR PLAN "B" SERIES UNITS

SCALE: 1/4" = 1'-0" (TYPE "B", "B-1", "B-2", "B-3" & "B-4" UNITS SIMILAR EXCEPT AS NOTED)



3 FLOOR PLAN "A" SERIES UNITS

SCALE: 1/4" = 1'-0" (TYPE "A", "A-1", "A-2" & "A-3" SIMILAR EXCEPT AS NOTED)

PANEL "A" (MAX. 14" WIDE)

VOLTAGE: 120/208V, 1Ø, 3W | TYPE: LOAD CTR. | MOUNTING: FLUSH
MAINS: 100A | MAIN BKR: NONE | MIN. A.I.C.: 10,000

CKT. NO.	USE OR LOCATION	CKT. BKR.	WATTS A	WATTS B	WATTS C
1	LIGHTS	1P-20A	900		
2	RECEPTS. & DETECTOR		1800		
3	(DINING)			1500	
* 4	(BATH) (LANAI & 1ST FL)			600	
5	↓		900		
6	(APPL.)		1500		
7	RANGE HOOD & LIGHT			550	
8	DISPOSAL			800	
9	RECEPT. (APPL.)		1500		
10	DISHWASHER		1200		
11	RECEPT. (REFRIG.)			1200	
12	(WASHER)			1200	
13	SPACE - P.E.B.	1P-	1000		
14	↓		1000		
15	DRYER	2#30A	2500	2500	
16	RANGE	2#50A	4000	4000	
TOTAL WATTS: 28,650		TOTAL AMPS: 158		19,500	12,350
DEMAND FACTOR: 60%		DEMAND AMPS: 85			

* G.F.I. TYPE RECEPTACLE

PANEL "H1"

VOLTAGE: 120/208V, 3Ø, 4W | TYPE: BOLT-ON | MOUNTING: SURFACE
MAINS: 100A | MAIN BKR: NONE | MIN. A.I.C.: 18,000

CKT. NO.	USE OR LOCATION	CKT. BKR.	WATTS A	WATTS B	WATTS C
1	EXH. FAN #2 1/4 HP	1P-20A	700		
2	SPARE			1000	
3	↓				1000
4	SUMP PUMP #2 1/2 HP	3P-20A	700	700	700
5	SUPPLY FAN #3 2 HP	↓	4500	4500	4500
6	SUMP PUMP #1 5 HP	3P-30A	1800	1800	1800
7	PFB	3P-	1000	1000	1000
8	↓	↓	1000	1000	1000
9					
10					
11					
12					
13					
14					
TOTAL WATTS: 17,100		TOTAL AMPS: 48		8500	8500
DEMAND FACTOR: 70%		DEMAND AMPS: 34			

PANEL "P"

VOLTAGE: 120/208V, 3Ø, 4W | TYPE: BOLT-ON | MOUNTING: SURFACE
MAINS: 100A | MAIN BKR: 3P-70A | MIN. A.I.C.: 10,000

CKT. NO.	USE OR LOCATION	CKT. BKR.	WATTS A	WATTS B	WATTS C
1	LIGHTS	1P-20A	590		
• 2	↓		315		
3	POOL			500	
4	RECEPT.			500	
5	SPARE				1500
6	SPACE - P.E.B.	1P-			1000
7	↓		1000		
8			1000		
9				1000	
10					1000
11	POOL EQUIP.	2P-20A		1800	1000
12	SAUNA	2P-20A	1500	1500	1500
13	↓	↓	1500	1500	1500
TOTAL WATTS: 10,565		TOTAL AMPS: 54		6265	5800
DEMAND FACTOR: 80%		DEMAND AMPS: 43			

• ON NIGHT LIGHT TIMER "NL" TORK # 7200EL, MTD. ADJACENT TO PANEL (SPARE POLE FOR POOL LIGHT CIRCUIT IF REQ'D.)

PANEL "H"

VOLTAGE: 120/208V, 3Ø, 4W | TYPE: BOLT-ON | MOUNTING: SURFACE
MAINS: 400A | MAIN BKR: NONE | MIN. A.I.C.: 18,000

CKT. NO.	USE OR LOCATION	CKT. BKR.	WATTS A	WATTS B	WATTS C
1	LIGHTS-ELECT. & TRASH 1ST-8TH	1P-20A	1000		
2	LIGHTS-1ST FL. & EF-16 1/20 HP		1050		
3	RECEPTS.-1ST FLR.			1500	
4	LIGHTS-1ST FLR.			250	
5	RECEPTS.-ELECT. RM. 1ST-8TH				1600
•• 6	LIGHTS-1ST FLR.				300
7	RECEPT.-CATV AMP.		500		
•• 8	LIGHTS-EXTERIOR		1975		
9	RECEPT.-ENTERPHONE EQUIP.			500	
• 10	LIGHTS-EXTERIOR			150	
11	SPRINKLER CONTROL				1000
•• 12	SIGNS-EXTERIOR				1600
13	RECEPTS.-PKG.		1500		
•• 14	LIGHTS-EXTERIOR		1100		
15	LIGHTS-PKG.			1300	
16	SPARE			1000	
17	LIGHTS-PKG.				750
18	SPARE				1000
19	SPACE-P.E.B.	1P-	1000		
20	↓		1000		
21				1000	
22				1000	
23					1000
24					1000
25	PANEL "P"	3P-70A	6265	5800	7500
26	"H1"	3P-70A	5500	5800	6800
27	"B2"	3P-100A	4200	5300	6200
28	ELEVATORS	3P-150A	10,000	10,000	10,000
TOTAL WATTS: 101,340		TOTAL AMPS: 285		34,200	34,200
DEMAND FACTOR: 80%		DEMAND AMPS: 230			

• ON 2P-20A RELAY, CONTROLLED BY NIGHT LIGHT TIMER "NL" @ PANEL "E".

•• ON 4P-20A RELAY, CONTROLLED BY SECURITY LIGHT TIMER "SL" @ PANEL "E".

RELAYS SHALL BE 120V, ELECT. HELD, IN NEMA-1 ENCLOSURES.

PANEL "B" (MAX. 14" WIDE)

VOLTAGE: 120/208V, 1Ø, 3W | TYPE: LOAD CTR. | MOUNTING: FLUSH
MAINS: 100A | MAIN BKR: NONE | MIN. A.I.C.: 10,000

CKT. NO.	USE OR LOCATION	CKT. BKR.	WATTS A	WATTS B	WATTS C
1	LIGHTS	1P-20A	1500		
2	RECEPTS. & DETECTOR		1500		
3	↓			1200	
4	↓			1500	
5	(APPL.)		1500		
* 6	(BATH) (LANAI & 1ST FL)		900		
7	DISPOSAL, RANGE HOOD & LIGHT			1050	
8	RECEPT. (DINING)			1500	
9	DISHWASHER		1200		
10	RECEPT. (REFRIG.)			1200	
11	↓ (WASHER)			1200	
12	SPACE - P.E.B.	1P-		1000	
13	RECEPT. (APPL.)	1P-20A	1500		
14	SPACE - P.E.B.	1P-	1200		
15	DRYER	2#30A	2500	2500	
16	RANGE	2#50A	4000	4000	
TOTAL WATTS: 30,750		TOTAL AMPS: 178		16,600	13,550
DEMAND FACTOR: 60%		DEMAND AMPS: 89			

* G.F.I TYPE BREAKER

PANEL "F" (WEATHERPROOF)

VOLTAGE: 120/208V, 3Ø, 4W | TYPE: BOLT-ON | MOUNTING: SURFACE
MAINS: 100 A | MAIN BKR: 3P-100A | MIN. A.I.C.: 10,000

CKT. NO.	USE OR LOCATION	CKT. BKR.	WATTS A	WATTS B	WATTS C
1	RECEPTACLES	1P-20A	400		
2	SOL. VALVE		200		
3	EXH. FAN 1/4 HP #15			700	
4	W.H. PUMP 1/2 HP			1200	
5	EXH. FAN 1/4 HP #14				700
6	W.H. PUMP 1/2 HP				1200
7	EXH. FAN 1/4 HP #15		700		
8	#9		700		
9	#11			700	
10	#10			700	
11	↓ #12	↓			700
12	H.W. CIRC. PUMP 3/4 HP	1P-20A			1600
13	EXH. FAN 1/4 HP #17	1P-20A	1000		
14	SPARE		1000		
15	LIGHTS-ROOF	↓		1000	
16	PFB	1P-		1000	
17					1600
18	↓	↓			1000
TOTAL WATTS: 15,500		TOTAL AMPS: 43		4000	5500
DEMAND FACTOR: 40%		DEMAND AMPS: 31			

PANEL "E"

VOLTAGE: 120/208V, 3Ø, 4W | TYPE: BOLT-ON | MOUNTING: SURFACE
MAINS: 100A | MAIN BKR: NONE | MIN. A.I.C.: 18,000

CKT. NO.	USE OR LOCATION	CKT. BKR.	WATTS A	WATTS B	WATTS C
1	LIGHTS - PKG.	1P-20A	995		
2	STAIR #1 & #8		620		
3	PKG.			1005	
4	STAIR #1 & #8			550	
•• 5	PKG. & STAIR #2				1355
•• 6	CORRIDORS				1485
•• 7	+STAIR #2		1005		
•• 8	↓		1245		
•• 9				1410	
• 10				1200	
• 11	↓ ↓				1200
12	TIMERS "NL" + "SL"	↓			1000
13	SPACE-P.E.B.	1P-	1000		
14	↓		1000		
15	↓			1000	
16	↓	↓		1000	
17	ELEVATOR CONTROL	1P-20A	1000		1000
18					
TOTAL WATTS: 19,120		TOTAL AMPS: 55		6015	6565
DEMAND FACTOR: 80%		DEMAND AMPS: 42			

• ON NIGHT LIGHT TIMER "NL", - TORK # 7300 EL, MTD. ADJACENT TO PANEL "B" (ONE POLE TO CONTROL NL RELAY @ PANEL "H").

•• ON 6-POLE, 120V, 20A RELAY IN NEMA-1 ENCLOSURE, MTD. ADJACENT TO PANEL "E". RELAY TO BE CONTROLLED BY SECURITY LIGHT TIMER "SL",- TORK # 7200 EL, MTD. ADJACENT TO PANEL "E" (ONE POLE OF TIME CLOCK TO CONTROL SL RELAY @ PANEL "H")

REVISIONS						
3	6-22-79	D.L.U. REVISIONS	TK			
2				3	7-15-80	REVISED
1	12-18-18	BLDG. DEPT. CORRECTIONS		2	8-22-79	BLDG. DEPT. & DIVISION OF INDUST. SAFETY COMMENTS TMB
REV.	DATE	DESCRIPTION	BY			

ALBERT F. KILLINGSTAD, REGISTERED PROFESSIONAL ENGINEER, No. 3125, HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

DMJM

DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING $ ARCHITECTURE $ ENGINEERING $ SYSTEMS

THE BEL AIR PLAZA

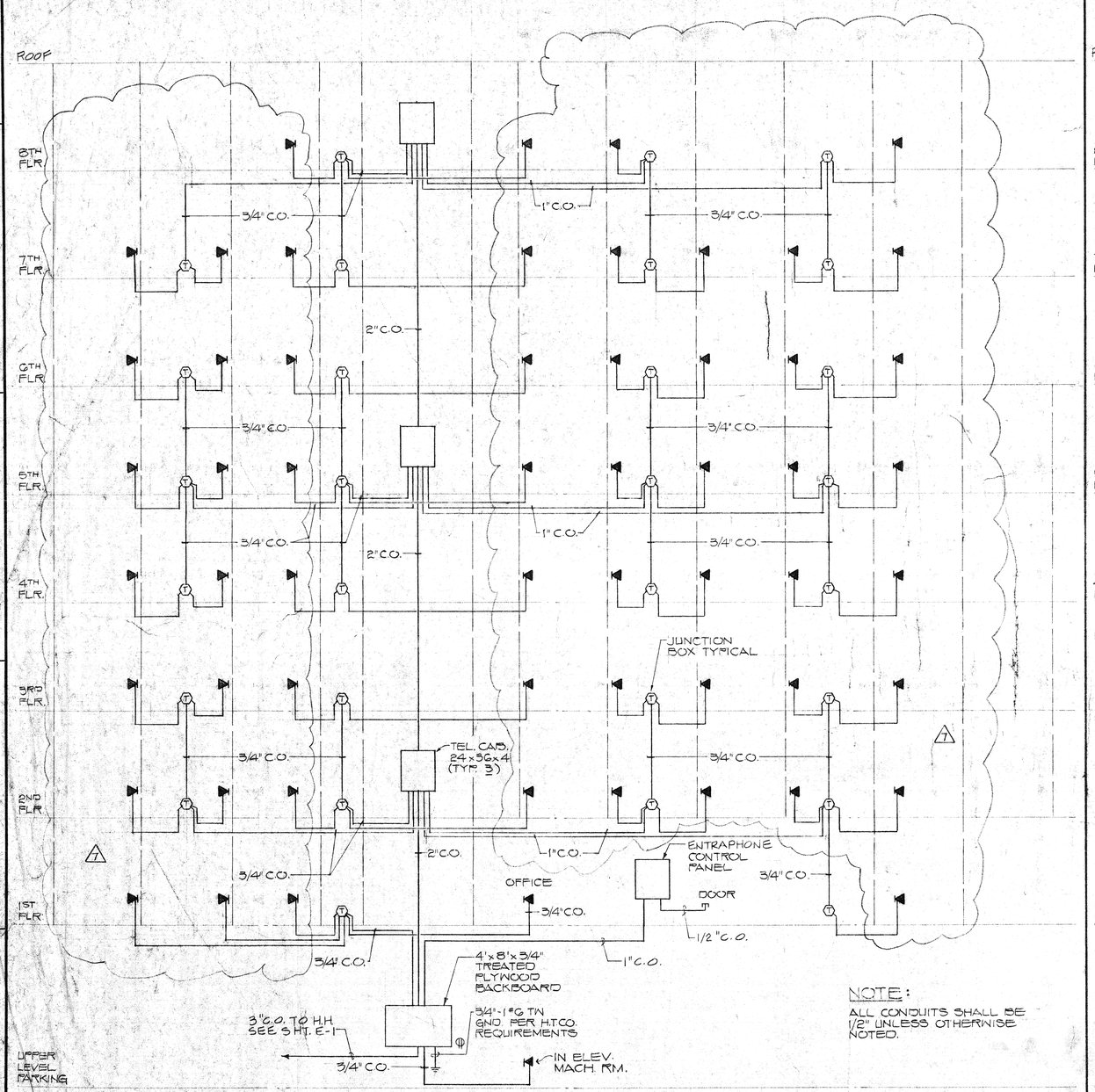
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	JSA
DRAWN BY	DTC/LFT
CHECKED BY	DVM
DATE	10-16-78
PROJECT NO.	3707-10-3

UNIT PLANS

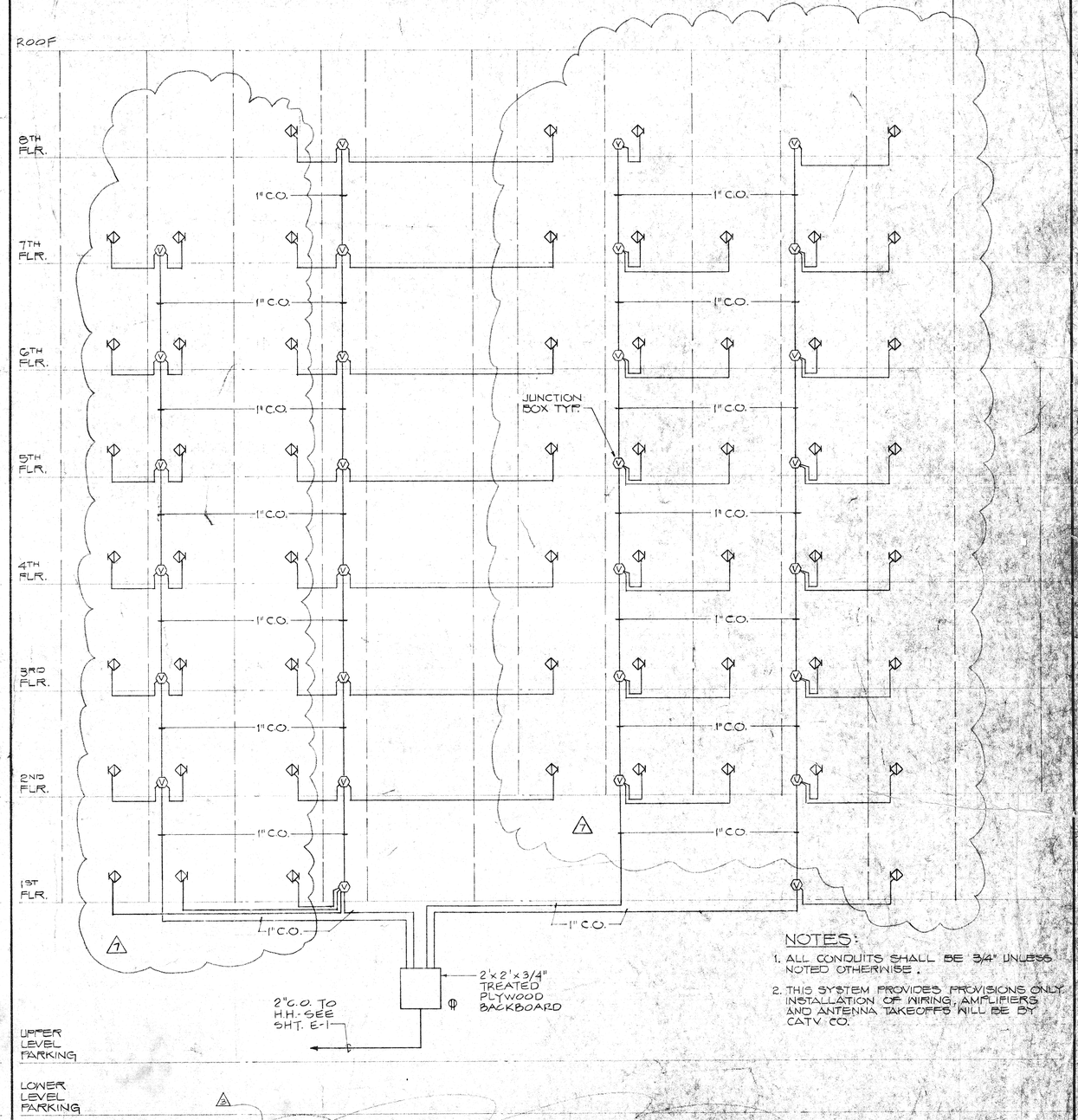
SHEET NO. E-6 OF SHEETS

7505



NOTE:
ALL CONDUITS SHALL BE 1/2" UNLESS OTHERWISE NOTED.

TELEPHONE RISER DIAGRAM



NOTES:
1. ALL CONDUITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. THIS SYSTEM PROVIDES PROVISIONS ONLY INSTALLATION OF WIRING, AMPLIFIERS AND ANTENNA TAKEOFFS WILL BE BY CATV CO.

TELEVISION RISER DIAGRAM

REVISIONS			
1	7-13-90	REVISED	
2	6-22-79	DLU REVISIONS	TK
REV.	DATE	DESCRIPTION	BY

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DANIEL, MANN, JOHNSON & MENDENHALL OF HAWAII
WARD PLAZA, SUITE 212, 210 WARD AVENUE, HONOLULU, HAWAII 96814 TELEPHONE 538-6747
PLANNING § ARCHITECTURE § ENGINEERING § SYSTEMS

THE BEL AIR PLAZA
1054 GREEN ST., HONOLULU, HAWAII

DESIGNED BY	JSA
DRAWN BY	LFT
CHECKED BY	DVM
DATE	10-16-78
TEL. & TV RISER DIAGRAMS	
PROJECT NO.	3707-10-3
SHEET NO.	E-8
OF	SHEETS