DPW TEMPORARY OFFICES (BUILDIN 023 - 0

DEPARTMENT OF THE ARMY
PUERTO RICO ARMY NATIONAL GUARD

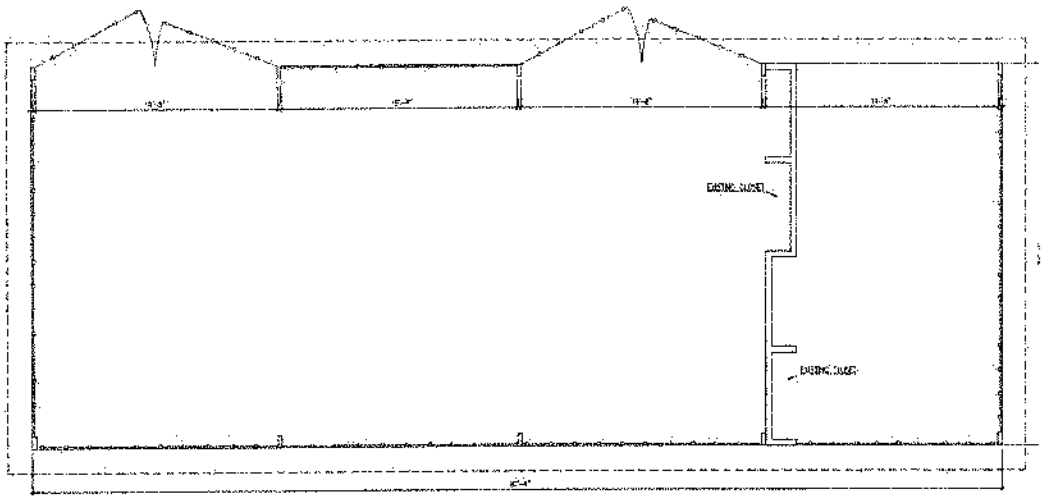
MAJ GEN MIGUEL A. MENDEZ
ADJUTANT GENERAL

LTC JOSE L. RIVERA
GARRISON COMMANDER

NUM.	DESCRIPTION
1	TITLE
2	EXISTING PLAN BUILDINGS 023 & 023A
3	DEMOLITION PLAN BUILDINGS 023 & 023A
4	PROPOSED FLOOR PLAN BUILDING 023 & 023A
5	DETAILS
6	CEILING PLAN BUILDING 023
7	ELEVATION PLAN BUILDING 023
8	LIGHTNING RECEPTACLE & DATA PLAN BUILDING 023
9	ELECTRICAL NOTES
10	ELECTRICAL DETAILS
11	AIR CONDITIONING PLAN BUILDING 023

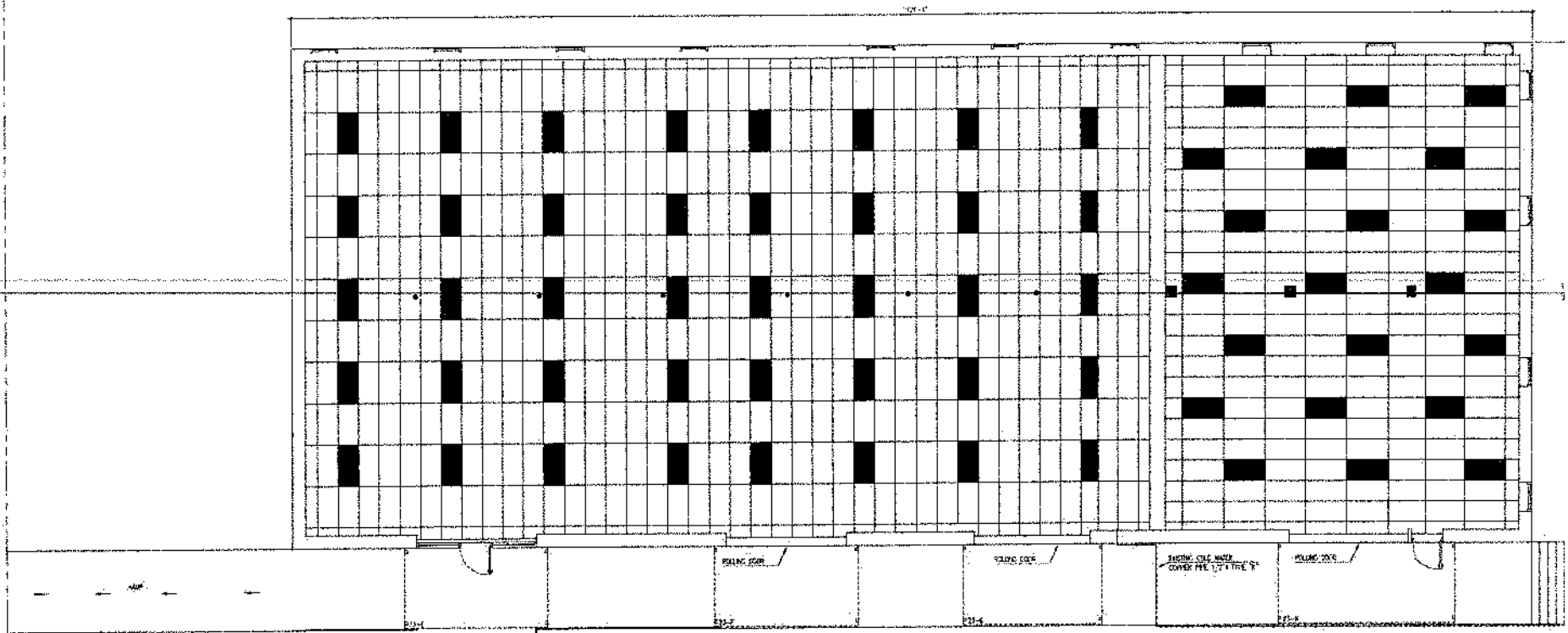
DIRECTORATE OF PUBLIC
CAMP SANTIAGO JOINT TRAINING

CPT ARMAI
STATE ROAD PR 1
TEL. (787) 289-1



EXISTING FLOOR PLAN BUILDING 023A

ESCALA: 3/16"=1'-0"



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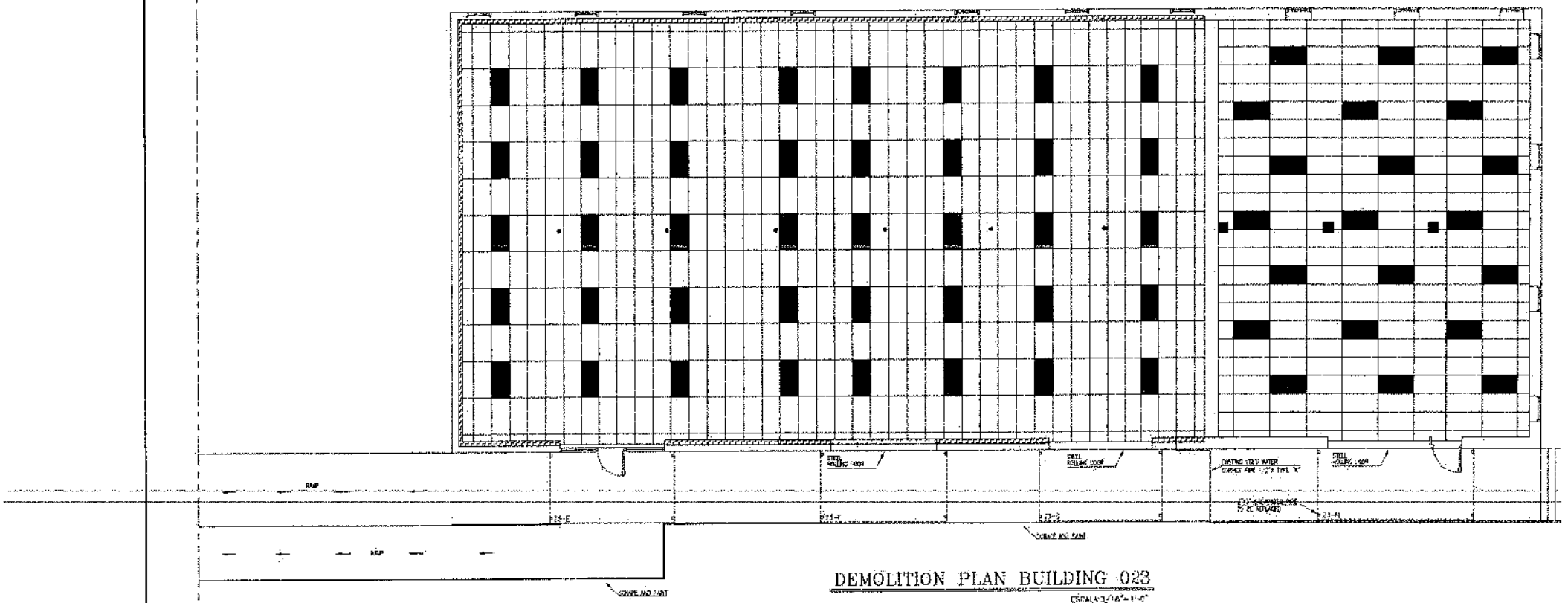
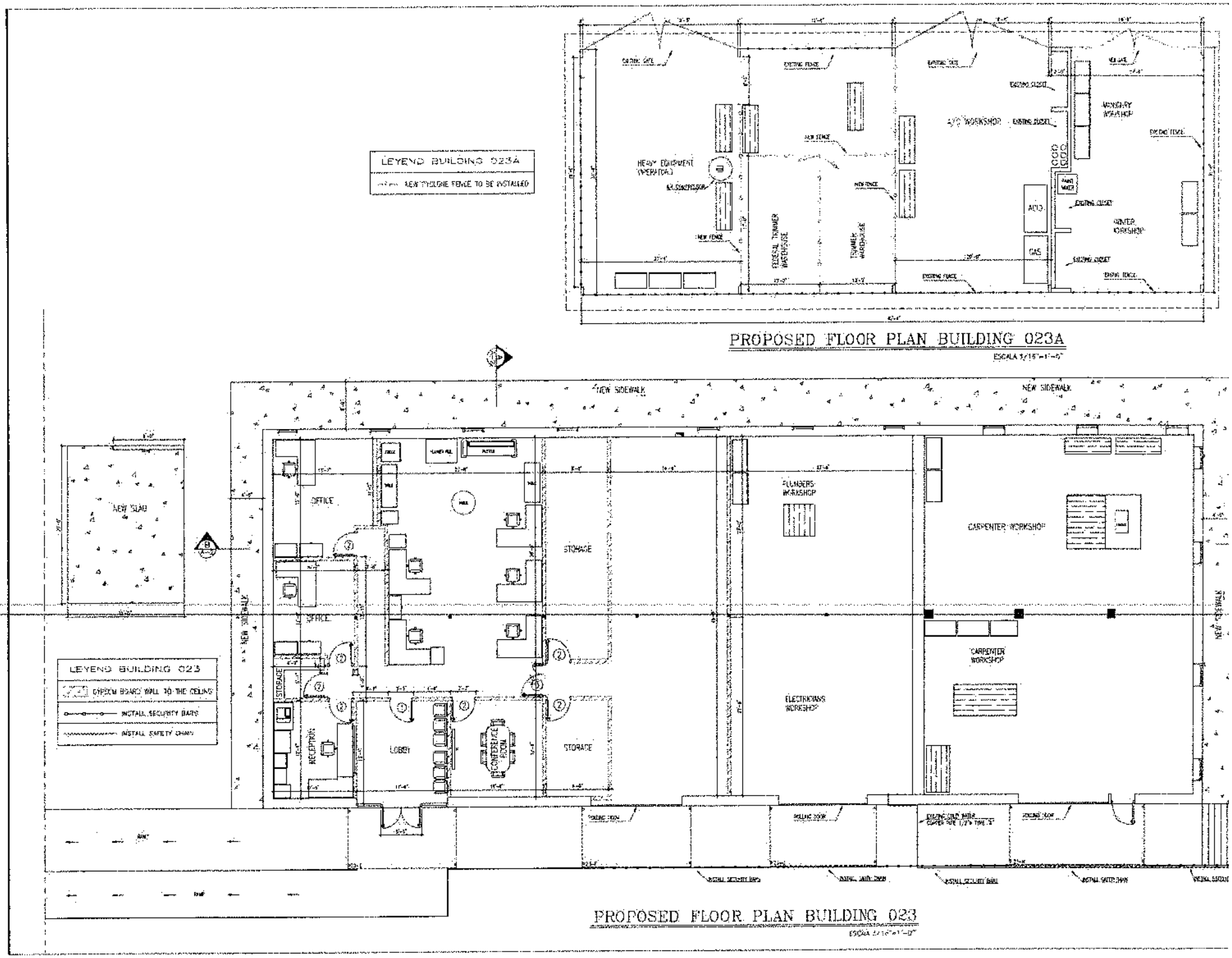
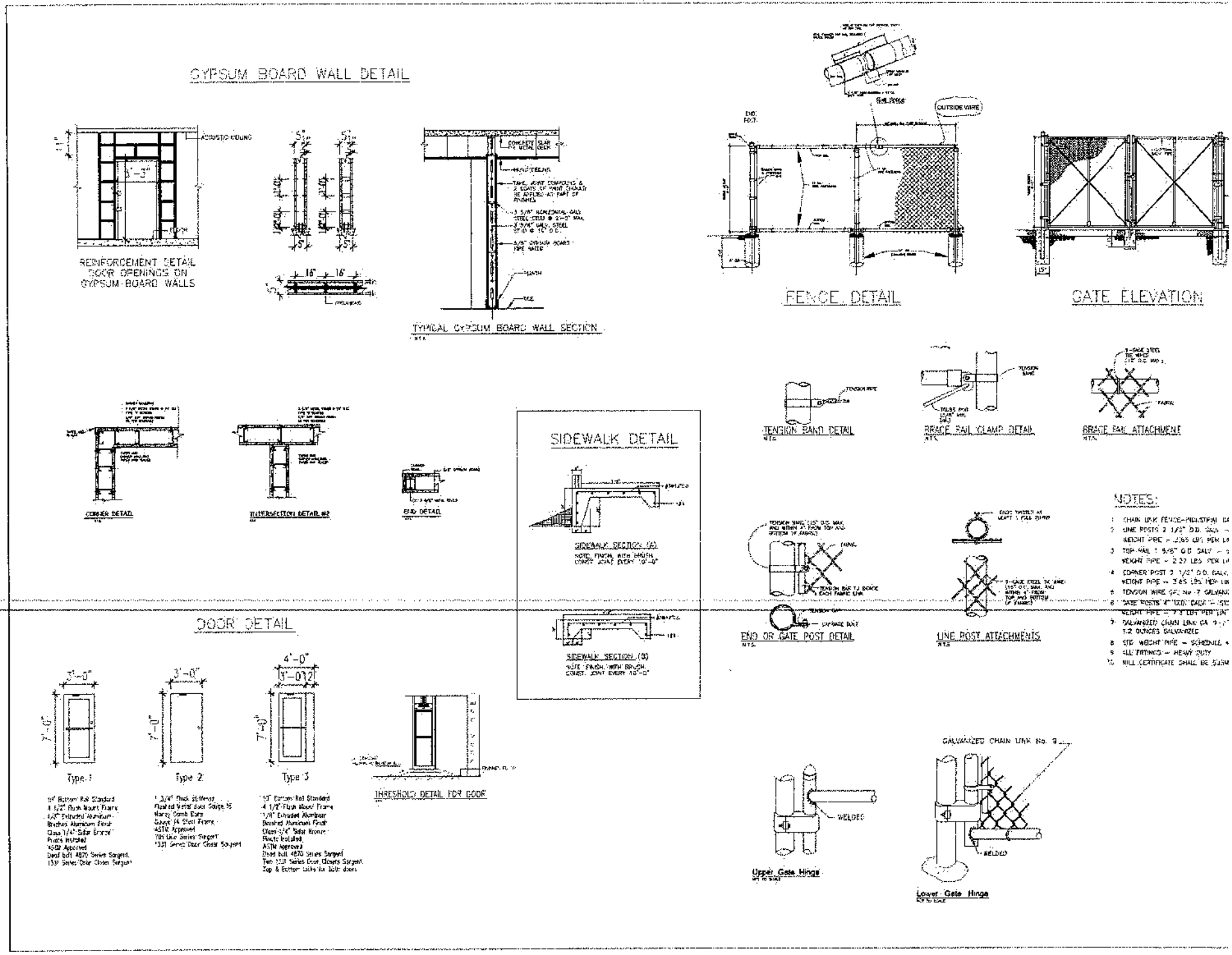


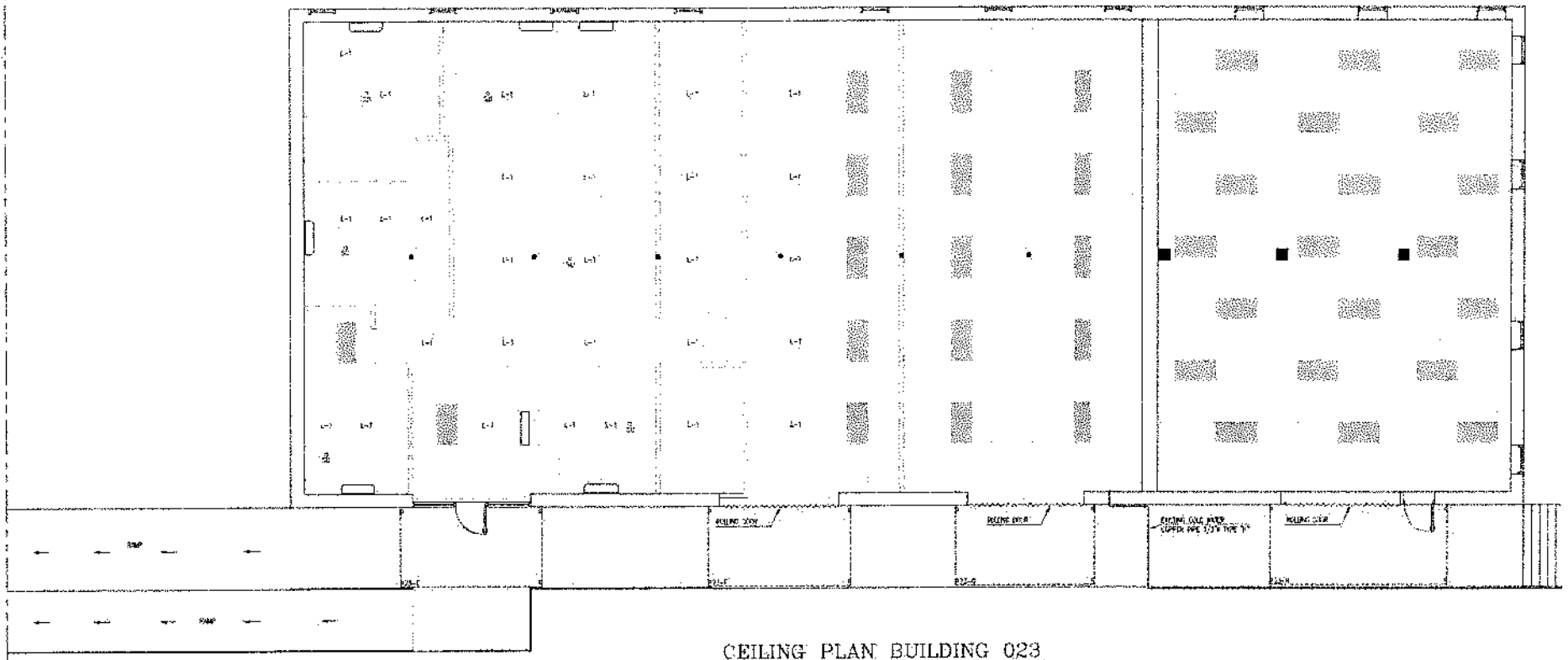
DEMOLITION PLAN BUILDING 023

SCALE: 3/16" = 1'-0"

LEYEND: BUILDING 023	
□ 23-H	REPLACE GALVANIZED 3X3 PIPE AT INLET 23-H
	REMOVE PLASTER WALLS TO INSTALL NEW
	REMOVE PLASTER WALLS


LEYEND BUILDING 023A
NEW CYCLONE FENCE TO BE INSTALLED
HEAVY EQUIPMENT OPERATOR
GENERAL TRIMMER WAREHOUSE
TRIMMER WAREHOUSE
A/C WORKSHOP
MANUFACTURY WORKSHOP
WINTER WORKSHOP
AUTO
GAS
EXISTING FENCE
NEW FENCE
EXISTING CLOSET
PROPOSED FLOOR PLAN BUILDING 023A
NEW SIDEWALK
NEW SLAB
OFFICE
STORAGE
RECEPTION
LOBBY
CONFERENCE ROOM
PLUMBERS WORKSHOP
ELECTRICIANS WORKSHOP
CARPENTER WORKSHOP
LEYEND BUILDING 023
GYPSUM BOARD WALL TO THE CEILING
INSTALL SECURITY BARS
INSTALL SAFETY CHAIN
INSTALL SECURITY BARS
INSTALL SAFETY CHAIN
INSTALL SAFETY CHAIN
INSTALL SECURITY BARS
INSTALL SAFETY CHAIN
INSTALL SAFETY CHAIN
PROPOSED FLOOR PLAN BUILDING 023


GYPSUM BOARD WALL DETAIL
REINFORCEMENT DETAIL DOOR OPENINGS ON GYPSUM BOARD WALLS
TYPICAL GYPSUM BOARD WALL SECTION
FENCE DETAIL
GATE ELEVATION
OUTSIDE WIRE
TENSION BAND DETAIL
BRACE RAIL CLAMP DETAIL
BRACE RAIL ATTACHMENT
CORNER DETAIL
INTERSECTION DETAIL #2
END DETAIL
SIDEWALK DETAIL
SIDEWALK SECTION (A)
SIDEWALK SECTION (B)
END OR GATE POST DETAIL
LINE POST ATTACHMENTS
NOTES:
DOOR DETAIL
Type 1
Type 2
Type 3
THRESHOLD DETAIL FOR DOOR
Upper Gate Hinge
Lower Gate Hinge
GALVANIZED CHAIN LINK No. 9
WELDED



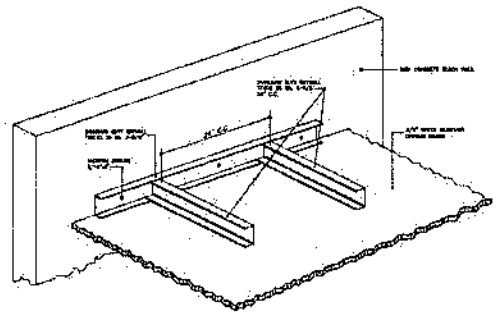
CEILING PLAN BUILDING 023

ESCALA: 3/32"=1'-0"

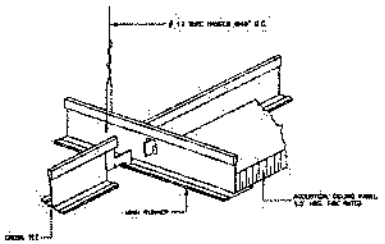
LEYEND

LIGHTS TO STAY IN PLACE

RELOCATE EXISTING LIGHTS TO U



GYPSUM BOARD HUNG CEILING DETAIL



TYPICAL HUNG CEILING DETAIL

CEILING NOTES:

1. ALL ACOUSTICAL CEILING SHALL BE EQUAL OR SIMILAR TO ARMSTRONG PRODUCT.

2. TYPE XL RH60 (PERFORATED) MINERAL FIBER BOARD, 24"x48"x5/8", NRC=0.55,CAC=35, CLASS A FIRE RESISTANCE- HIGH GUARD MAX, LIGHT REFLECTANCE OF 0.83, 1.05#/SF, VINYL FACED MEMBRANE,WET-FORMED MINERAL FIBER, TEXTURE FINE AT ALL TOILET ROOMS.

3. CEILING SUSPENSION SYSTEM: PRELUDE XL FIRE GUARD 15/16" EXPOSED TEE GRID, FOR ALL AREAS BLACK COLOR FINISH.

4. ALL SUSPENDED ACOUSTICAL CEILINGS SHALL BE MOUNTED AT 8'-0" ABOVE FINISH FLOOR ELEVATION.

LEFT LATERAL ELEVATION BUILDING 023

REAR ELEVATION BUILDING 023

FRONT ELEVATION BUILDING 023

RIGHT LATERAL ELEVATION BUILDING 023

NEW PANEL BOARD SCHEDULE (BLDG 23A) AREA

CIRCUITS	AMPS RATED	NO. OF POLES	CONDUCTOR 600 V SIZE	CONDUCTOR 600 V INSULATION	CONDUIT SIZE IN "	CONDUIT TYPE	SERVICE	REMARKS
1-3	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	LIGHTING	
4-7	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	RECEPTACLES	
8-9	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	RECEPTACLES	

EXISTING PANEL BOARD SCHEDULE (BLDG 023) WORKSHOP AREA (E-1)

CIRCUITS	AMPS RATED	NO. OF POLES	CONDUCTOR 600 V SIZE	CONDUCTOR 600 V INSULATION	CONDUIT SIZE IN "	CONDUIT TYPE	SERVICE	REMARKS
1-3	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	RECEPTACLES	
4-15	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	LIGHTING	

EXISTING PANEL BOARD SCHEDULE (BLDG 023) OFFICE AREA (E-2)

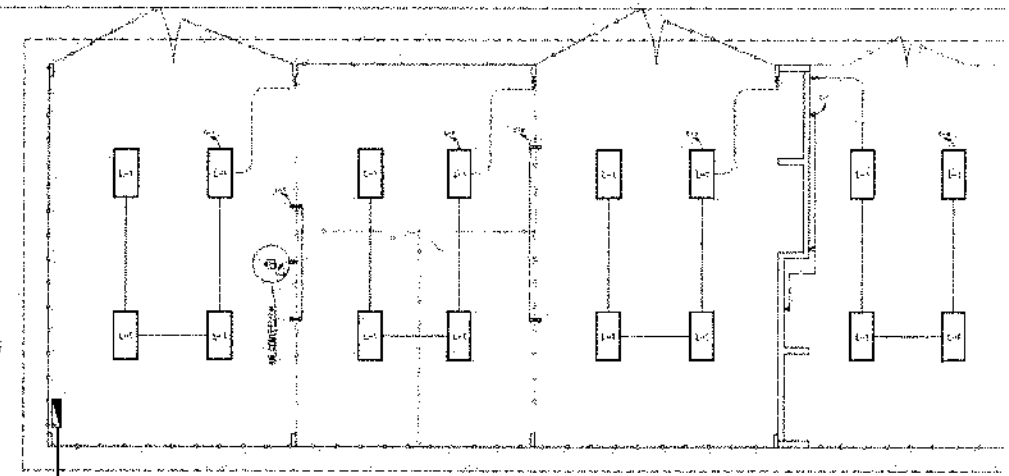
CIRCUITS	AMPS RATED	NO. OF POLES	CONDUCTOR 600 V SIZE	CONDUCTOR 600 V INSULATION	CONDUIT SIZE IN "	CONDUIT TYPE	SERVICE	REMARKS
1-3	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	RECEPTACLES	
4-15	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	LIGHTING	

NEW PANEL BOARD SCHEDULE (BLDG 023) OFFICE AREA (E-3)

CIRCUITS	AMPS RATED	NO. OF POLES	CONDUCTOR 600 V SIZE	CONDUCTOR 600 V INSULATION	CONDUIT SIZE IN "	CONDUIT TYPE	SERVICE	REMARKS
1-3	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	RECEPTACLES	
4-12	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	LIGHTING	
13-20	20	1	3-12 AWG	THWN	3/4	PVC SCH 40	AC	

NOTES:
1. NO EXPOSED CONDUITS ALLOWED UNLESS APPROVED.
2. ALL CABLES TO BE COPPER.
3. EXPOSED CONDUITS WILL BE RAND GALVANIZED FIRES.
4. AN ALLOWANCE OF $11,000.00 FOR ADDITIONAL ELECTRIC WASTES MUST BE CONSIDERED.

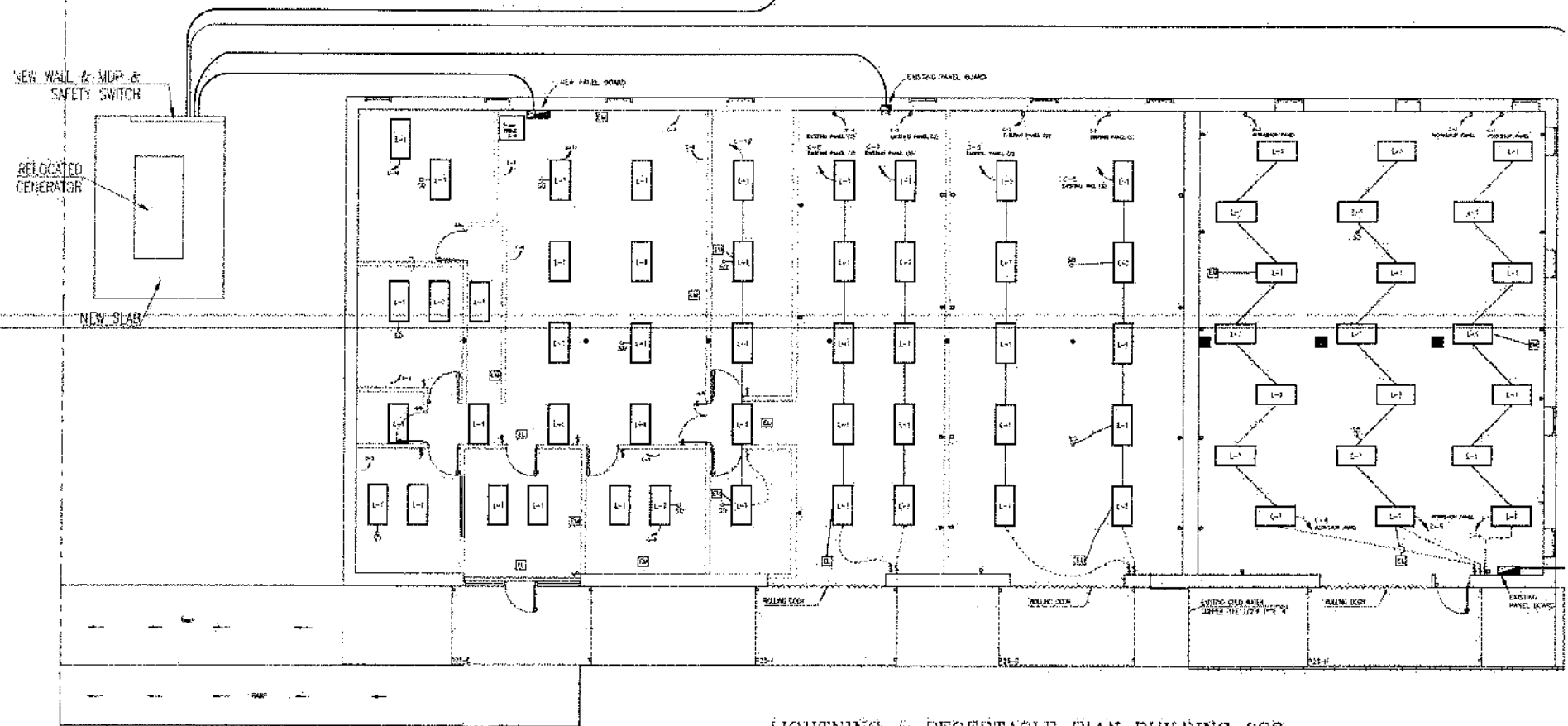
LEGEND
- ELECTRICAL CONDUIT
- SWITCH CONDUIT
- RECEPTACLE CONDUIT
- GREE MODEL DN 24 3/4" X 4 ARCHITECT WALL LED SHUTTER
- SINGLE SWITCH 120 V 15 A @ 4'-0" FROM GROUND
- WHITE WITH STAINLESS STEEL COVER SIMILAR TO LEGRAND DECORA
- NEW ELECTRICAL PANEL 120V Z 240 V 100 SPACES
- SMOKE DETECTOR 120 V AC/DC
- EXIT LIGHT 120V/BATTERY BACK UP
- EMERGENCY LIGHT 120V/BATTERY BACK UP
- DOUBLE ELECTRICAL OUTLET WITH GROUND TERMINAL 15 AMP @ 1'-6" FROM GROUND LEGRAND DECORA STAINLESS STEEL COVER
- INTERNET 27" X 4" JUNCTION BOX ADH STAINLESS STEEL ETHERNET COVER 1" CONDUIT RUNNING THROUGH THE WALL



TO NEW ELECTRICAL PANEL BUILDING 023A

LIGHTNING & RECEPTACLE PLAN BUILDING 023A

ESCALA 3/16"=1'-0"

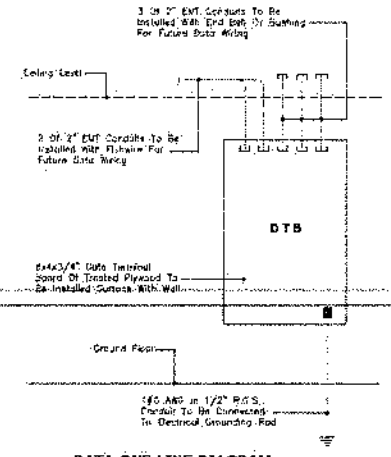


LIGHTNING & RECEPTACLE PLAN BUILDING 023

ESCALA 3/16"=1'-0"

NOTE:

1. ELECTRICAL RISER WILL BE INSTALLED (TYPICAL TYPE) WITH SAFETY SWITCH 120/240 VOLTS, SOLID NEUTRAL DISTRIBUTION PANEL 120/240 VOLTS, 225 AMPS, 2 POLES, 22 SPACES (RAINTIGHT).
2. ELECTRICAL SERVICE WILL BE SUPPLIED FROM NEAREST POLE AND WILL BE CONNECTED TO THREE CONDUCTORS #3 THW COOPER IN RIGID GALVANIZED CONDUIT 2" DIAM., ENDING WITH TYPE "T" CONDULET.
3. ELECTRICAL RISER WILL BE FIXED ALSO WITH A COOPER CONDUCTOR #6 IN RIGID GALVANIZED CONDUIT 2" DIAM., ATTACHED WITH A 5/8" x 8'-0" COOPER WELD BAR.
4. CIRCUITS WILL BE DISTRIBUTED AS THE BETTER KNOW OF THE ELECTRICAL TECHNICIAN ON DISTRIBUTION PANEL.



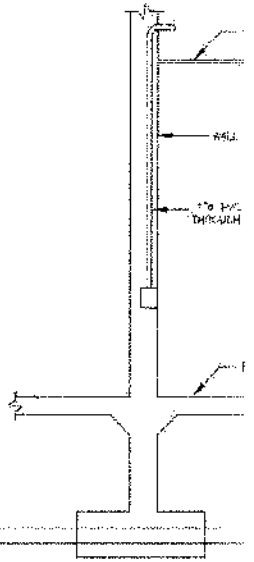
DATA ONE LINE DIAGRAM

ELECTRICAL NOTES:

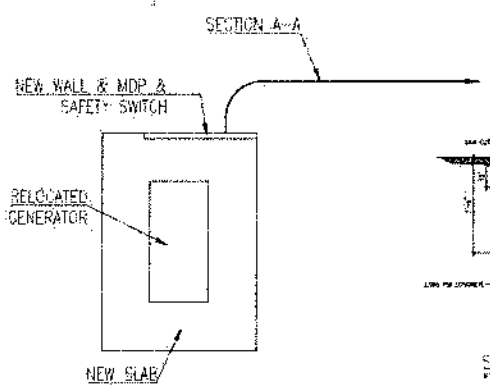
1. ALL WORK SHALL BE STRICTLY COORDINATED WITH OWNER'S REPRESENTATIVE, A WRITTEN NOTICE TO PROCEEDE FROM THE OWNER IS REQUIRED PRIOR START THE CONSTRUCTION WORKS. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO THE OWNER'S STANDARDS AND SPECIFICATION.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCES ACCORDING TO OWNER'S REPRESENTATIVE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE.
3. ALL ELECTRICAL CONSTRUCTION WORKS SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER BY A LICENSED CONTRACTOR FOR A FULLY OPERATIVE SYSTEM IN ACCORDANCE WITH THE PLANS, SPECS AND CONSTRUCTION DRAWINGS. THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL, FIRE AND LOCAL CODES HAVING JURISDICTION SHALL BE FOLLOWED.
4. ELECTRICAL CONTRACTOR SHALL VISIT THE PROJECT PRIOR BID AND SHALL ADJUST HIS WORK TO ALL CONDITIONS FOUNDED ON SITE ACCORDING TO ARCHITECTURAL, CIVIL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS. ALL ADJUSTMENTS AND CHANGES REQUIRED DUE TO EXISTING CONDITIONS SHALL BE INCLUDED IN HIS BID.
5. SPECIAL CONDITIONS APPLY TO ELECTRICAL DRAWINGS, THEY ARE SCHEMATICS. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS NECESSARIES TO PROVIDE A COMPLETE INSTALLATION READY FOR USE ACCORDING TO DRAWINGS AND SPECIFICATIONS.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MANUFACTURER'S SUPPLIER EXACT REQUIREMENTS FOR THE INSTALLATION AND PROTECTION OF ALL ELECTRICAL EQUIPMENTS AND MATERIALS PRIOR BID. ALL EQUIPMENTS AND MATERIALS SHALL BE NEW EXCEPT UNLESS OTHERWISE INDICATED AND SHALL BEAR UNDERWRITERS AND UNION LABELS.
7. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL ELECTRICAL EQUIPMENTS, INCLUDING CONTROL PANELS, OUTLETS, DEVICES, WIRING, ETC. ACCORDING TO DRAWINGS UNLESS OTHERWISE INDICATED.
8. ALL DISTRIBUTION PANELBOARDS SHALL BE CONSTRUCTED WITH A GROUND BUS SEPARATE FROM NEUTRAL ONE TO CONNECT ALL GROUNDING GREEN WIRES. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE, PLUG-IN TYPE NOT ALLOWED. PROVIDE IDENTIFICATION OF ALL BRANCH CIRCUITS ON A TYPEWRITTEN DIRECTORY CARD IN THE PANEL DOOR.
9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING ALL LOADS ON EACH DISTRIBUTION PANELBOARD. MAXIMUM LOAD FOR EACH BRANCH CIRCUITS IS EIGHTY PERCENT (80%).
10. ALL ELECTRICAL EQUIPMENTS SHALL BE CLEARLY IDENTIFIED WITH YELLOW ENAMEL PAINT OR ANY OTHER APPROVED METHOD ACCORDING TO DRAWINGS. NO FREE HAND IDENTIFICATION ALLOWED.
11. ALL METERBANKS, METER SOCKETS, DISTRIBUTION PANELBOARDS, SAFETY SWITCHES AND ANY OTHER ELECTRICAL MATERIAL SHALL BE CONSTRUCTED WITH COOPER BUSES, NOT ALLUMINUM ALLOWED.
12. ELECTRICAL, TELEPHONE, C.A.T.V., INTERCOM, DATA AND ANY OTHER SYSTEM SHALL BE GROUNDED AS PER LATEST EDITION NATIONAL ELECTRICAL CODE. ALL GROUND SYSTEM SHALL HAVE MAXIMUM RESISTANCE OF 5 OHMS. PROVIDED BOND WIRES IN ALL CONDUITS AND GROUND TYPE BUSHINGS AS REQUIRED.
13. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER WITH 600 V INSULATION AND #12 AWG MINIMUM UNLESS OTHERWISE INDICATED. ALLUMINUM WIRE IS NOT PERMITTED UNLESS SPECIFIED.
14. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ENGINEER EXACT FINAL LOCATION OF ELECTRICAL ELEMENTS, C.A.T.V., DATA, INTERCOM AND ANY OTHER OUTLET OR EQUIPMENT PRIOR TO INSTALLATION.
15. ELECTRICAL CONTRACTOR SHALL INSTALL UNISTRUT CHANNELS AND HANGERS TO PROVIDE MECHANICAL SUPPORT TO ALL CONDUITS EXPOSED IN CEILING PLENUM.
16. PROVIDE ELECTRICAL IDENTIFYING PVC WARNING RIBBON FOR UNDERGROUND LINES INSTALLED OVER ALL DIRECT BURIAL UNDERGROUND CONDUCT AND SETS AT 12" BELOW FINAL FLOOR. IT IT SHALL BE 6" WIDE YELLOW COLOR AND PERMANENTLY PRINTED WITH CONTINUOUS 3-1/4" X 3/8" BLACK LETTERS WITH WORDS " PELIGRO - PELIGRO" AT THE TOP AND "LINEAS ELECTRICAS DEBAJO" AT BOTTOM.
17. NO CONDUIT SHALL BE SMALLER THAN 3/4" IN DIAMETER.
18. PROVIDE NO. 12 TW GREEN BONDING JUMPER BETWEEN THE OUTLET BOX GROUNDING SCREW AND ALL RECEPTACLES GROUND TERMINALS.
19. ALL WIRING DEVICE SHALL BE SPECIFICATION GRADE.
20. ALL CONDUCTORS #8 AWG AND ABOVE SHALL BE STRANDED.
21. ALL EXPOSED CONDUITS SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING THE RECOMENDATIONS OF NEC 1996, SECTION 347-8.
22. HOMERUNS TO PANEL BOARD EXCEEDING ONE HUNDRED FEETS SHALL BE WIRED WITH #8 AWG PHASE CONDUCTORS AND #10 AWG GROUNDING CONDUCTOR USING 1" CONDUIT.
23. GROUNDING CONDUCTOR FOR ISOLATED GROUND BUS SHALL BE INSTALLED DIRECTLY WITH #8 AWG PHASE CONDUCTORS NEARES GROUND ROD NOT ITEM GROUNDING BUS BAR OF SUPPLY PANEL BOARD. SEE ELECTRICAL RISER DIAGRAM AND TYPICAL ISOLATED DISTRIBUTION PANEL BOARD CONNECTION DETAIL.
24. EACH CIRCUIT SHALL INCLUDE A SEPARATOR NEWMAN AND GROUNDING CONDUCTORS INSTALLED DIRECTLY TO PANEL BOARD.

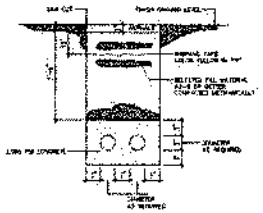
NOTES:

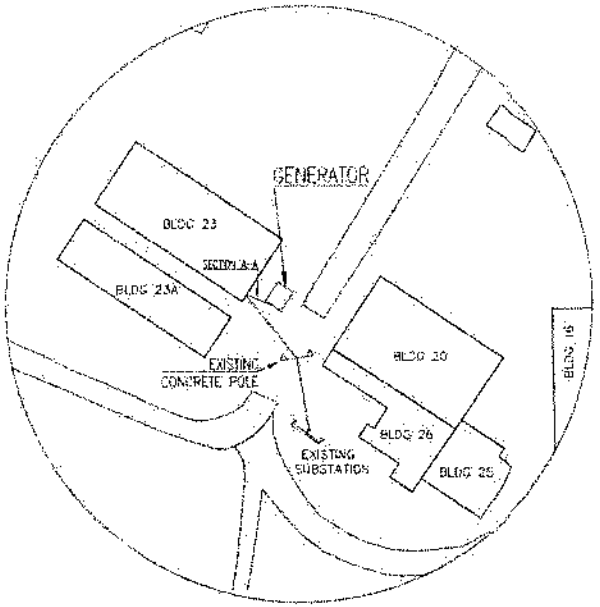
1) ALL MATERIAL WILL BE NEW AND BUY AMERICA COMPLIANT FREE OF DEFECTS
2) ALL EXPOSED CONDUITS WILL BE RIGID GALVANIZED.
3) ALL RECEPTACLES INSTALLED IN CIRCUITS OF 15 Y 20 AMPERES MUST BE BORNE TYPE, FOR GROUND CONECTION ("GROUND TYPE").
4) INSTALL CONDUCTOR #12TW GREEN BEETWEEN THE "BORNE" GROUND FROM THE OUTLET TO "BORNE" GROUND OF THE ELECTRICAL BOX.
5) THE CONTRACTOR WILL BE RESPONSIBLE TO ABIDE BY THE PREPA CODES AND THE ARTICLES OF THE APPLICABLE NATIONAL ELECTRICAL CODES DURING CONSERUCTION.



TYPICAL INSTALLATION FOR COMU







NEW FEEDER DIAGRAM
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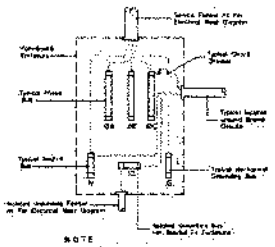
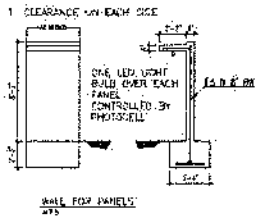
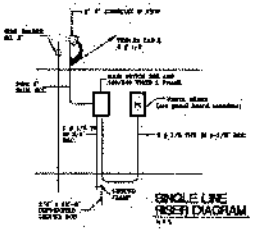


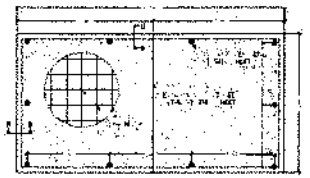
TYPICAL (ISOLATED) DISTRIBUTION PANELBOARD CONNECTION DETAIL



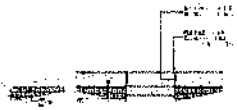
WALL FOR PANELS

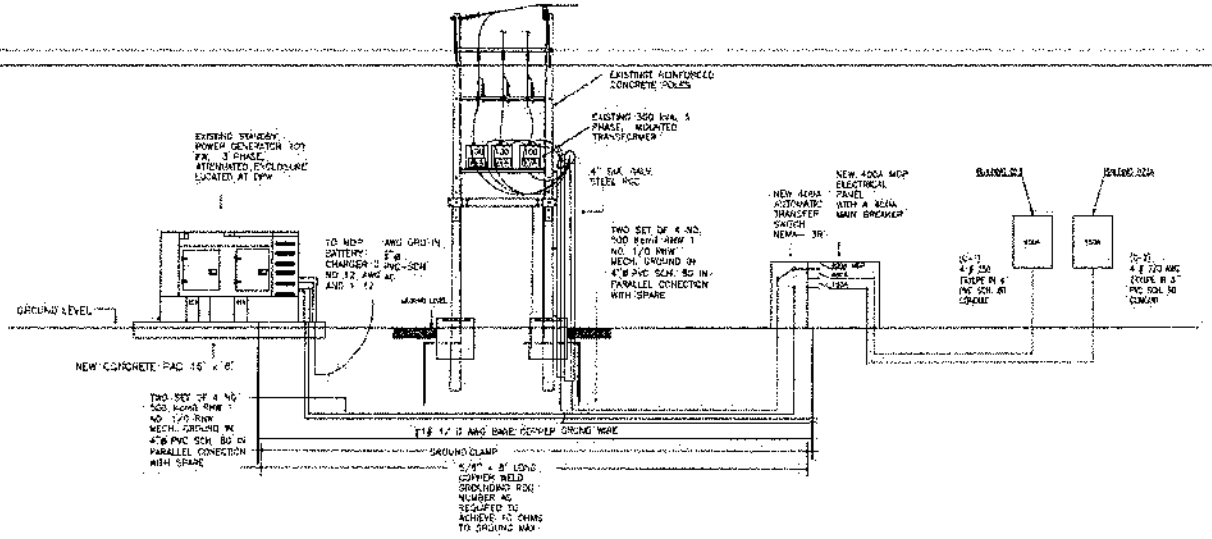


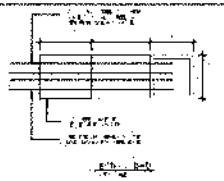
SINGLE LINE (RISER) DIAGRAM

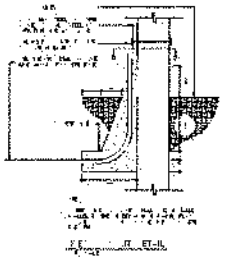


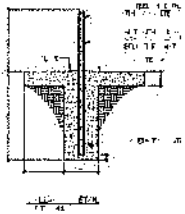


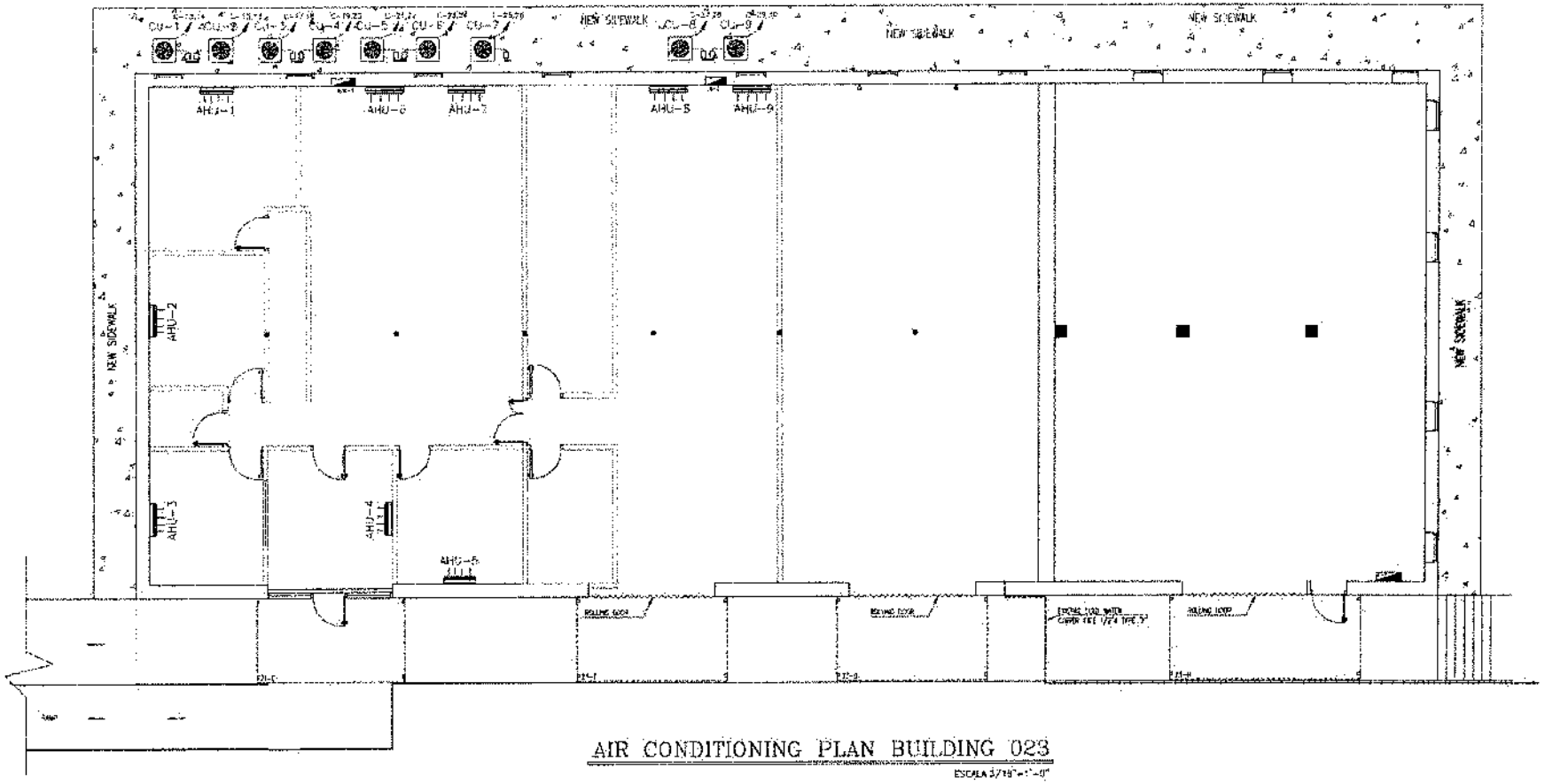






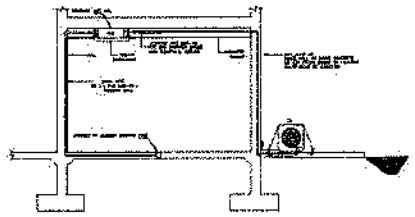






AIR CONDITIONING PLAN BUILDING 023

ESCALA 3/16"=1'-0"



TYPICAL INSTALLATION FOR A/C UNITS "CASSETTE"

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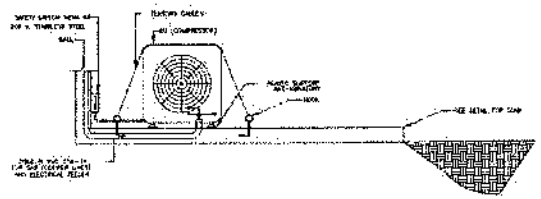
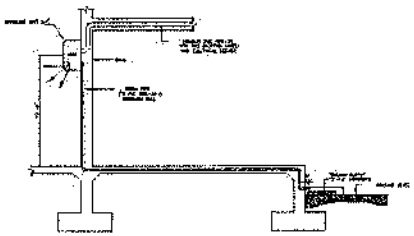
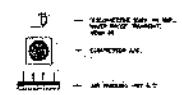




TYPICAL INSTALLATION FOR A/C UNITS "MINI-SPLIT"

N.T.S.

LEGEND:



LIST OF THE MECHANICAL EQUIPMENT	
[illegible]	[illegible]

A/C NOTES:

[illegible]