JUNTA DE SUBASTAS

Hon. Pedro R. Pierluisi Urrutia
Gobernador

Lcda. Karla G. Mercado Rivera
Administradora y Principal Oficial de Compras

ENMIENDA NÚM. 4

SUBASTA FORMAL 23J-02607
PARA REALIZAR MEJORAS A LOS PISOS 8 Y 10 DEL EDIFICIO DE LA OFICINA CENTRAL DE LA ADMINISTRACIÓN DE COMPENSACIONES POR ACCIDENTES DE AUTOMÓVILES (ACAA) DEL GOBIERNO DE PUERTO RICO

ASUNTO: VARIOS

Se notifica a los licitadores interesados en participar en la Subasta de referencia la siguiente Enmienda:

I. Los licitadores tendrán hasta el próximo **15 de marzo de 2023 a las 4:00 p.m.**, para **someter preguntas** al correo electrónico: **preguntas@asg.pr.gov**. Las respuestas serán publicadas y remitidas a todos los licitadores en o antes del 17 de marzo de 2023.

II. Los licitadores tendrán que presentar sus ofertas **en o antes del 24 de marzo de 2023, a las 9:30 am,** cumpliendo con las disposiciones del Pliego.

III. El Acto de Apertura se llevará a cabo el **24 de marzo de 2023, a las 10:00 am.** Toda persona interesada en comparecer al Acto de Apertura, el cual se realizará de manera virtual, podrá acceder al mismo a través de la página cibernética de la ASG en el área de "SUBASTAS/LICITACIONES", en la cual encontrará el enlace correspondiente a la subasta de referencia el cual proveerá, a su vez, la opción de conectividad al "acto de apertura virtual".

IV. Se adjunta **Revisión a Planos** en formato *PDF*, que deberán considerar para someter su oferta.

V. Se adjunta **Planos** en formato *PDF*, que deberán considerar para someter su oferta.

Todos los demás términos, condiciones y especificaciones permanecen sin alterar.

Hector Ortiz Méndez
Administrador Auxiliar de Adquisiciones

Joel Fontánez González
Oficial de Licitación Interino

10 de marzo de 2023
San Juan, Puerto Rico

JUNTA DE SUBASTAS ASG GOBIERNO DE PUERTO RICO

Administración de Servicios Generales
Gobierno De Puerto Rico
PO Box 41249 San Juan, PR 00940 | (787) 759-7676
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Addenda 1

Improvements ACAA Building 10th Floor

ARCHITECTURAL

G-1.0 (GENERAL NOTES & SYMBOLS)

New notes added in General Notes (notes 11-17).

A-0.1 (10TH FLOOR DOOR, WINDOW & FINISH SCHEDULE)

New sheet added.

A-1.0 (10TH FLOOR PLAN)

Door & window details relocated under sheet A-0.1.

Finish schedule relocated in sheet A-0.1.

Jamb Detail J-1 and Head Detail H-1 removed.

Detail 1 relocated on new sheet A-3.0.

New information added under the floor plan.

A-1.1 (10TH FLOOR REFLECTED CEILING PLAN)

New sheet created.

A-1.2 (10th FLOOR FURNITURE LAYOUT PLAN)

New notes and details added.

A-2.0 (10th FLOOR CABINET DETAILS)

Sheet previously known as 10th floor reflected ceiling plan. Information relocated in new sheet A-1.1.

New information added.

A-2.1 (10TH FLOOR CABINET DETAILS)

New Sheet added.

A-3.0 (GYPSUM BOARD DETAILS)

Sheet previously known as 10th floor furniture plan. Information relocated in new sheet A-1.2.

New information added.

MECHANICAL

VAC-3.0

New sheet added.

Improvements ACAA Building 8th Floor

ARCHITECTURAL

G-1.0 (GENERAL NOTES % SYMBOLS)

New notes added in General Notes (notes 11-17).

A-0.1 (8TH FLOOR DOOR, WINDOW & FINISH SCHEDULE)

New sheet added.

A-1.0 (8TH FLOOR PLAN)

Door & window details relocated in sheet A-0.1.

Finish schedule relocated in sheet A-0.1.

Jamb Detail J-1 and Head Detail H-1 removed.

New information added in the floor plan.

New partition wall details information added.

A-1.1 (8TH FLOOR REFLECTED CEILING PLAN)

New sheet created.

A-1.2 (8th FLOOR FURNITURE LAYOUT PLAN)

New notes and details added.

A-2.0 (8th FLOOR COUNTER AND CABINET DETAILS)

Sheet previously known as 8th floor reflected ceiling plan. Information relocated under new sheet A-1.1.

New information added.

MECHANICAL

VAC-3.0

New sheet added.

- 5-20P GFCI DUPLEX RECEPTACLE, P&S 2095-GRY IN 4"x4" JUNCTION BOX WITH TP8-GRY ONE GANG WALL PLATE @ 18" A.F.F. IN HORIZONTAL POSITION
- 5-20R DUPLEX RECEPTACLE, P&S BP20-GRY IN 4"x4" JUNCTION BOX WITH TP8-GRY ONE GANG WALL PLATE @ 18" A.F.F. IN HORIZONTAL POSITION
- DITTO BUT POWERED FROM UPS
- 5-20R GFCI DUPLEX RECEPTACLE, P&S 2095-GRY IN 4"x4" JUNCTION BOX WITH TP8-GRY ONE GANG WALL PLATE @ 42" A.F.F. OR 6" A.C.T. IN HORIZONTAL POSITION
- 5-20R DUPLEX RECEPTACLE, P&S BR20-GRY IN 4"x4" JUNCTION BOX WITH TP8-GRY ONE GANG WALL PLATE @ 42" A.F.F. OR 6" A.C.T. IN HORIZONTAL POSITION
- 5-20R QUADRUPLEX RECEPTACLE, P&S 420-GRY IN 4"x4" JUNCTION BOX @ 18" A.F.F. IN HORIZONTAL POSITION
- 5-20R QUADRUPLEX RECEPTACLE, P&S BR20-GRY IN 4"x4" JUNCTION BOX @ 42" A.F.F. OR 6" A.C.T.
- 5-15R DUPLEX RECEPT./ OUTLET AND USB CHARGER, RKAA2-G IN 4x4" JUNCTION BOX WITH RCWP1-PG ONE GANG WALL PLATE @ 42" A.F.F. OR 6" A.C.T. IN HORIZONTAL POSITION
- 5-20R SINGLE RECEPTACLE, P&S 5371-3-I IN 4"x4" JUNCTION BOX IN GRADE
- TOGGLE SWITCH FOR A/C EXHAUST FAN 20A/208V/3#
- EXISTING ELECTRICAL LOADCENTER PANEL SEE PANEL SCHEDULE FOR DETAILS.
- SAFETY SWITCH WITH NUMBER OF POLES AND RATING AS REQUIRED. NEMA-3R ENCLOSURE IF LOCATED OUTDOORS. SEE SAFETY SWITCH SCHEDULE FOR DETAILS
- DRY-TYPE TRANSFORMER SEE SINGLE LINE DIAGRAM FOR DETAILS

NOTES:

1) RECEPTACLES SHALL BE EQUAL OR SIMILAR TO THE SPECIFIED
2) MODULAR OUTLETS MUST BE COMPATIBLE WITH NEW FURNITURE
3) HEIGHTS DESCRIBED IN LEGEND CAN BE OVER WRITED ON DRAWINGS
4) NEUTRAL CONDITIONS SHALL BE COMMON IN NO MORE THAN TWO CIRCUITS

ELECTRICAL LEGEND

SCALE: N.T.S.

1. ALL INDICATED HEIGHTS ARE FROM CENTER OF THE EQUIPMENT TO FINISHED FLOOR UNLESS INDICATED
2. NO WIRE SHALL BE SMALLER THAN #12 AWG THHN, 600V INSULATION
3. NO CONDUIT SHALL BE SMALLER THAN 3/4" DIAMETER
4. ELECTRICAL CONTRACTOR SHALL BALANCE ALL THE LOADS
5. PROVIDE GREEN BONDING JUMPER BETWEEN THE OUTLET BOX GROUNDING SCREW AND ALL RECEPTACLES, GROUNDING TERMINALS, EXCEPT SELF-GROUNDING TYPE RECEPTACLES
6. PROVIDE MULTI-WIRE BRANCH CIRCUITS UTILIZING COMMON NEUTRALS(EXCEPT WHEN OTHERWISE NOTED), FOR LIGHTING, RECEPTACLES AND SINGLE PHASE EQUIPMENT CIRCUIT NUMBERS ADJACENT TO THE "HOME RUN" ARE INDICATED AS A GUIDE FOR PROPER CONNECTIONOF MULTIWIRE CIRCUIT AT PANELS. THE CONTRACTOR SHALL COORDINATE THE FINAL ARRANGEMENT AND ROUTING OF BRANCH CIRCUITS
7. ALL WIRING SHALL BE DONE IN E.M.T. CONDUIT UNLESS SPECIFIED
8. UF CABLES ARE NOT ALLOWED. ONLY STRANDED COPPER THHN (OR AS SPECIFIED) INSULATED SHALL BE USED
9. ELECTRICAL CONTRACTOR SHALL REVIEW DIMENSION OF JUNCTION BOXES TO ENSURE CABLE PERMISSIBLE RADIUS AT FIELD
10. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES. THE CONDUIT ROUTING IN ORDER TO AVOID CONFLICTS. IN CASE OF CONFLICT THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT
11. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME ACQUAINTED WITH THE EXISTING FIELD CONDITIONS IT SHALL BE THE DIRECT RESPONSABILITY OF THE CONTRACTOR TO BRING PROMPTLY TO THE ATTENTION OF THE DESIGNER ANY DISCREPANCIES BETWEEN THE EXISTING FIELD CONDITIONS AND THOSE USED FOR DESIGN PURPOSES
12. THE CONDUIT TRAYECTORY SHOWN IN THE LAYOUTS IS OF A SCHEMATIC NATURE AND IS INTENDED ONLY TO INDICATE INTERCONNECTIONS BETWEEN OUTLETS. EXACT ROUTING OF THE CONDUITS SHALL BE DETERMINED AT JOB SITE TO CONFORM TO THE STRUCTURAL CONDITIONS AND SHALL BE APPROVED BY THE ENGINEER
13. PROVIDE EXPANSION JOINT COUPLINGS OR THE REQUIRED TYPE AND SIZE WHENEVER A CONDUIT CROSSES AN EXPANSION JOINT.
14. ELECTRICAL CONTRACTOR MUST MAKE SURE THAT THE ENTIRE ELECTRICAL SYSTEM HAS GROUND CONTINUITY
15. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENTS WITH THE EQUIPMENT SUPPLIER, BEFORE FINAL CONNECTION OF CONDUITS AND WIRING
16. PROVIDE TYPEWRITTEN IDENTIFICATION CARDS FOR ALL BRANCH CIRCUITS INSIDE THE PANELBOARDS
17. ALL RELATED ELECTRICAL EQUIPMENT SHALL BE NEW AND CONSTRUCTED ACCORDING TO ANSI, NEMA AND PREPA STANDARDS
18. ALL ELECTRICAL CONSTRUCTION WORKS SHALL BE DONE IN A THROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS, SPECS AND CONSTRUCTION DRAWINGS. THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE SHALL BE FOLLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT
19. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY INTERCONNECTIONS BETWEEN THE MOTORS AND THE MOTORS AND THE STARTING/DISCONNECTING EQUIPMENT

ELECTRICAL NOTES

SCALE: N.T.S.

- CONDUIT STUBBED AND BUSHED
- CONCEALED RACEWAY IN FLOOR, UNDERFLOOR OR UNDERGROUND
- CABLETRAY AT PLENUM, DIMENSION INDICATED ON DRAWINGS
- HOMERUN TO PANELBOARD WITH CIRCUIT NUMBERS AS INDICATED SHORT LEG, LONG LEG & LONG LEG WITH TICK INDICATES HOT, NEUTRAL & GROUND RESPECTIVELY
- 4"X4"X2" JUNCTION BOX INSIDE PLENUM OR CONCEALED IN CEILING FACING DOWN
- J-HOOK INSIDE PLENUM
- FURNITURE MULTI-SERVICE POWER POLE
- 4"x4"x2" JUNCTION BOX WALL MOUNT @ 18" AFF UNLESS OTHERWISE NOTED
- 4"x4" JUNCTION BOX WALL MOUNT @ 7'-6" A.F.F. UNLESS OTHERWISE NOTED

WIRING METHOD LEGEND

SCALE: N.T.S.

- TELECOMM OUTLET,IN 4"x4" JUNCTION BOX @ 18" A.F.F. IN HORIZONTAL POSITION
- TELECOMM OUTLET IN 4"x4" JUNCTION BOX WITH AC-SFP ONE GANG WALL PLATE @ 42" A.F.F. OR 6" A.C.T. IN HORIZONTAL POSITION
- FLUSH FLOOR TELECOMM OUTLET, WALKER 880C SERIES CAST IRON, GANG TYPE, FULLY ADJUSTABLE FLOOR BOX WITH BRASS COVER PLATE AND FLANGE
- TELECOMM CONDUIT, MINIMUM 1" EMT CONDUIT WITH PULL STRING, UNLESS OTHERWISE NOTED
- TELEPHONE PLYWOOD FIRE RESISTANT TREATED

TELECOMM LEGEND

SCALE: N.T.S.

1. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO PERFORM ALL OPERATIONS REQUIRED FOR THE COMPLETE INSTALLATION AND RELATED WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER
2. MINIMUM SIZE OF CONDUITS TO BE AS FOLLOWS: 1"ø FOR TELECOMMUNICATIONS, ¾"ø FOR SECURITY & AUDIO, OR AS SPECIFIED IN PLANS
3. ALL CONDUITS SHALL BE PROVIDED WITH A 1/4" NYLON FISHWIRE
4. PROVIDE ALL REQUIRED SUPPORTS AND ACCESSORIES
5. INSTALL ALL WORK IN COMPLIANCE WITH THE LATEST EDITION OF
   A. THE NATIONAL ELECTRICAL CODE, NFPA-70
   B. BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
   C. JUNTA REGLAMENTADORA DE TELECOMUNICACIONES (JRT) REQUIREMENTS
6. PROVIDE COVERS DESIGN AND STYLE TO SUIT BOX AND LOCATION
7. FLUSH RECESSED WHEREVER POSSIBLE AND SECURELY SUPPORTED FROM BUILDING CONSTRUCTION.
8. MOUNTING HEIGHT OF OUTLET BOXES SHALL BE 1'-6" AFF OR AS INDICATED IN THE PLANS
9. TELECOMMUNICATION CABLES AND ELECTRICAL WIRING SHALL NEVER PASS THROUGH THE SAME HOLES OR SHARE SAME CONDUIT.
10. MINIMUM CONDUIT BENDS RADIO SHALL BE AS FOLLOWS:
    18" FOR 1" TO 1.5" DIAM. CONDUIT
    24" FOR 2" DIAM. CONDUIT
    30" FOR 3" TO 4" DIAM. CONDUIT
11. PROVIDE 1"ø LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT & FITTINGS FOR ALL TRANSITIONS BETWEEN JUNCTION WALL OR FLOOR BOXES AND MODULAR FURNITURE SYSTEMS OR TABLE BOXES
12. COORDINATE EXACT LOCATION OF FLOOR BOXES WITH ARCHITECT AT FIELD
13. PROVIDE CABLE SLACK OF 12" AT OUTLET BOX AND 10' ORGANIZED ON TOP OF THE RACK IN A FIGURE "8"
14. ALL NON-WELDED CONNECTIONS TO THE TGB AND TO THE OBJECTS BEING BONDED SHALL BE MADE WITH TWO-HOLE LUGS.
15. NO MORE THAN 180 DEGREES OF CONDUIT BENDS SHALL BE PERMITTED BETWEEN PULL POINTS.
16. CABLING NOT IN CONTRACT
17. SUPPORT AND BOND CONDUITS TO CABLE TRAY
18. ALL TELECOMMUNICATIONS WORKS WITHIN COMMUNAL AREAS SHALL BE CARRIED OUT BY THE ADMINISTRATION OFFICE'S DESIGNATED CONTRACTOR

TELECOMM NOTES

SCALE: N.T.S.

- 2'x2' FLUORESCENT FIXTURE AND OUTLET. IDENTIFICATION NUMBER AS INDICATED IN LUMINAIRE SCHEDULE
- FIXTURES WITH SHADING SHALL BE CONNECTED TO EMERGENCY POWER SOURCE. 1100 LUMEN OUTPUT BATTERY PACK OR APPROVED EQUAL
- 4"x4" JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION TO FIXTURE
- SINGLE POLE SWITCH, P&S 2621-I IN 2"x4" JUNCTION BOX WITH TPJ26-I ONE GANG WALL PLATE @ 48" A.F.F. IN VERTICAL POSITION
- GANGED TOGETHER
- THREE-WAY SWITCH, P&S 2623-I IN 2"x4" JUNCTION BOX WITH TPJ26-I ONE GANG WALL PLATE @ 48" A.F.F. IN VERTICAL POSITION

LIGHTING LEGEND

SCALE: N.T.S.

1. LETTER "L" AND NUMBER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHTING FIXTURE SCHEDULE SMALL LETTER INDICATES SWITCH WITH CORRESPONDING SMALL LETTER CONTROLLING FIXTURE FIXTURE SYMBOLSWITH SHADING DENOTES FIXTURES TO BE USED AS NIGHT AND/OR EMERGENCY SYSTEM
2. FOR THE EXACT LOCATION OF LIGHTING FIXTURES IN AREAS HAVING A HUNG CEILING, SEE LIGHTING REFLECTED CEILING PLANS
3. FINAL LOCATION FOR FIXTURES MOUNTED IN EXPOSED AREAS IS TO BE COORDINATED WITH THE HVAC DUCTS AND EQUIPMENT, PIPING CONDUITS OR PIPE RACKS
4. ALL LIGHTING FIXTURES SHOWN WITH HATCH SHALL BE PROVIDED WITH EMERGENCY BATTERY PACKOF TWO HOUR OPERATION
5. FIXTURES WITH HATCH SHALL BE NIGHT LIGHT & EMERGENCY BATTERY PACK
6. FOR LIGHTING FIXTURES SCHEDULES AND ADDITIONAL NOTES SEE SHEET L2-01.
7. THE CONTRACTOR IS RESPONSIBLE FOR ADECUATE CONNECTION OF THE PARKING LIGHTING SYSTEM IN ORDER FOR IT TO OPERATE ADECUATELY. SEE LIGHTING CONTROL DIAGRAM FOR DETAILS
8. ALL CIRCUIT BREAKER USED TO CONTROL LIGHTING CIRCUITS SHALL BE RATED FOR SWITCHING DUTY
9. ALL LIGHTING FIXTURES SHALL BE U/L LISTED. FLUORESCENT BALLAST SHALL BE U/L APPROVED AND HAVE A HIGH POWER FACTOR
10. CONTRACTOR SHALL VERIFY PANEL VOLTAGES BEFORE BUYING LIGHT FIXTURES AND/OR WIRING DEVICES

LIGHTING NOTES

SCALE: N.T.S.

- FIRE ALARM SMOKE DETECTOR, COMPATIBLE WITH HONEYWELL PHOTOELECTRIC TYPE @ CEILING.
- FIRE ALARM HEAT DETECTOR, COMPATIBLE WITH HONEYWELL PHOTOELECTRIC TYPE @ CEILING
- FIRE ALARM MANUAL PULL STATION, COMPATIBLE WITH HONEYWELL @ 48" A.F.F. UNLESS OTHERWISE NOTED
- CEILING MOUNTED EXIT FIXTURE WITH DIRECTIONAL ARROWS AS INDICATED. IDENTIFICATION NUMBER AS INDICATED IN LUMINAIRE SCHEDULE.
- FIRE ALARM HORN AND STROBE, COMPATIBLE WITH HONEYWELL @ 80" A.F.F. OR 6" BELOW CEILING WHICHEVER IS LOWER MINIMUM 60 CANDELA
- FIRE ALARM REMOTE PANEL, COMPATIBLE WITH EXISTING HONEYWELL MAIN F/A PANEL. COORDINATE WITH BUILDING OWER @ 5'-0" A.F.F. FROM CENTER
- EMERGENCY LIGHTING CEILING OR WALL FIXTURE. IDENTIFICATION NUMBER AS INDICATED IN LUMINAIRE SCHEDULE

NOTES
SEE SPECIFICATIONS FOR DEVICE AND WIRING REQUIREMENTS. ALL SYSTEM IS EXISTING AND ADDITIONAL DEVICES SHALL BE COMPATIBLE WITH EXISTING BUILDING ALARM SYSTEM MODEL HONEYWELL

FIRE ALARM LEGEND

SCALE: N.T.S.

1. ALL CONDUITS, WIRING & DEVICE REQUIREMENTS SHALL BE COORDINATED WITH THE MANUFACTURER PRIOR TO INSTALLATION. CONDUITS SHALL BE 3/4" EMT FOR CEILING PLENUM OR WALLS AND 3/4" PVC FOR CONCRETE SLABS
2. ALL JUNCTION BOXES FOR THE FIRE ALARM SYSTEM SHALL BE IDENTIFIED AND PAINTED RED
3. THE WIRING OF THE FIRE ALARM SYSTEM SHALL BE CLASS "B"
4. THE CONTRACTOR SHALL INSTALL ALL REQUIRED WIRING & DEVICES TO COMPLETE THE SYSTEM AS ILLUSTRATED ON DRAWINGS
5. SMOKE DETECTORS SHALL NOT BE INSTALLED MORE THAN SIX INCHES (6") FROM THE HIGHEST POINT OF CEILING SLAB. COORDINATE THE EXACT REQUIREMENTS WITH MANUFACTURER
6. THE MECHANICAL CONTRACTOR SHALL INSTALL ONE SMOKE DETECTOR IN THE SUPPLY DUCT HOUSING FOR AIR HANDLING UNITS (A/C) OF 2,000 TO 15,000 CFM. FOR MORE THAN 15,000 CFM CONTRACTOR SHALL INSTALL ANOTHER SMOKE DETECTOR IN THE RETURN DUCT HOUSING. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL DRAWINGS AND WITH MANUFACTURER
7. THE FIRE ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED COMPLETE WITH ALL ACCESSORIES FOR A NORMAL OPERATION AS REQUIRED BY APPLICABLE CODES. THE OWNER AND "AMERICANS WITH DISABILITIES ACT" (ADA)

FIRE ALARM NOTES

SCALE: N.T.S.

A/C	AIR CONDITIONING	KCMIL	1000 CIRCULAR MILS
A.C.T.	ABOVE COUNTER TOP	KV	KILOVOLT
A.F.C.	ABOVE FINISHED CEILING	KVA	KILOVOLT-AMPS
A.F.F.	ABOVE FINISHED FLOOR	KW.	KILOWATT
A.F.G.	ABOVE FINISHED GROUND	KWH.	KILOWATT-HOUR
A.F.C.I.	ARC FAULT CIRCUIT INTERRUPTER		
A.H.J.	AUTHORITY HAVING JURISDICTION	LTG.	LIGHTING
AIC	AMPERE INTERRUPTING CAPACITY		
AMPS	AMPERES	M.	MODULAR OUTLET
A.N.S.I.	AMERICA NATIONAL STANDARDS INSTITUTE	MAX.	MAXIMUM
ARCH	ARCHITECTURAL, ARCHITECT	MCA.	MINIMUM CIRCUIT AMPACITY
ATS	AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER
AUX	AUXILIARY	MCC.	MOTOR CONTROL CENTER
AWG	AMERICAN WIRE GAGE	MECH	MECHANICAL
		MH	MANHOLE, METAL HALIDE
B.F.F.	BELOW FINISHED FLOOR	MIN	MINIMUM
BKR	BREAKER	MLO	MAIN LUGS ONLY
BLDG	BUILDING	MTD	MOUNTED
C	CONDUIT	N/A	NOT APPLICABLE
CB	CIRCUIT BREAKER	N	NORMAR OUTLET
CATV	CABLE TELEVISION SYSTEM	NC.	NORMALLY CLOSED
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM	NEC.	NATIONAL ELECTRICAL CODE
CKT	CIRCUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S CODE
DIA	DIAMETER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DISC	DISCONNECT	N.I.C.	NOT IN CONTRACT
DN	DOWN	N.O.	NORMALLY OPEN
DPDT	DOUBLE-POLE, DOUBLE THROW	N.T.S.	NOT TO SCALE
DPST	DOUBLE-POLE, SINGLE THROW		
DWG	DRAWING	OCPD	OVERCURRENT PROTECTIVE DEVICE
		OSHA.	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
EA	EACH		
EF	EXHAUST FAN	P.F.	POWER FACTOR
ELEC	ELECTRICAL	PH.	PHASE
EMT	ELECTRICAL METALLIC TUBING	PNL.	PANEL
ENT	ELECTRICAL NONMETALLIC TUBING	PVC	POLYVINYL CHLORIDE
ENCL	ENCLOSURE		
EQUIP	EQUIPMENT	QTY.	QUANTITY
EXH	EXHAUST		
E	EXISTING	REQD	REQUIRED
FA	FIRE ALARM	REV.	REVISION, REVISED
FACP	FIRE ALARM CONTROL PANEL	RGS.	RIGID GALVANIZED STEEL
F.B.O.	FURNISHED BY OWNER	RM	ROOM
FLEX	FLEXIBLE	RMC	RIGID METAL CONDUIT
FMC	FLEXIBLE METAL CONDUIT		
FMT	FLEXIBLE METAL TUBING	SD	SMOKE DAMPER
FT	FOOT, FEET	SECT	SECTION
		SHT.	SHEET
GND	GROUND	SIM.	SIMILAR
GA	GAUGE	SPEC	SPECIFICATION
GAL	GALLON	SPD	SURGE PROTECTIVE DEVICE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SQ	SQUARE
GFR	GROUND FAULT RELAY	SS	STAINLESS STEEL
GND	GROUND	STD.	STANDARD
		SURF	SURFACE
H	HEIGHT		
HID	HIGH INTENSITY DISCHARGE	TR	TAMPER RESISTANT
HP	HORSEPOWER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
HZ	HERTZ	TYP	TYPICAL
HV	HIGH VOLTAGE		
		UL	UNDERWRITERS LABORATORIES, INC
ID	INSIDE DIAMETER	UON	UNLESS OTHERWISE NOTED
IG	INSOLATED GROUND	UPS.	UNINTERRUPTIBLE POWER SUPPLY
J.B	JUNCTION BOX	WP	WEATHER PROOF
		WT	WATERTIGHT

ABBREVIATION LEGEND

SCALE: N.T.S.

ABACUS

ARCHITECTURE PSC

elementz ENGINEERING PSC

REVISION 0
NO DRAWINGS
FEB/26/2021

NEW IMPROVEMENTS ACAA BUILDING
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

No.	DESCRIPTION	DATE

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PARTNER IN CHARGE
DESIGN CAPTAIN
JOB CAPTAIN
CHECKED BY
DRAWN BY

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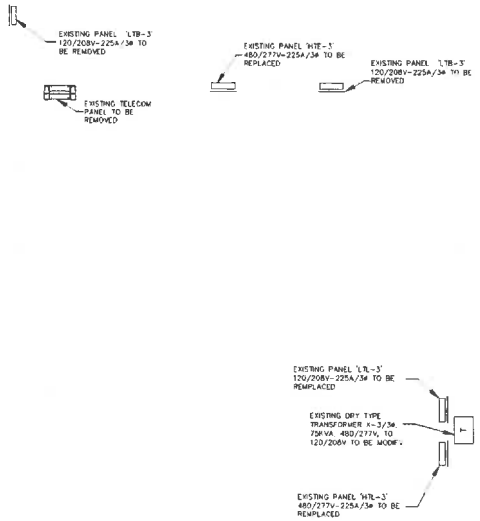
DRAWING TITLE
8TH FLOOR ELECTRICAL NOTES & LEGENDS

SCALE 1/4"=1'-0"
PROJECT No.
DATE
DRAWING No. EC-01
SHEET No.



ELECTRICAL DEMOLITION ROOM PLAN

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

1 THE ELECTRICAL CONTRACTOR SHALL, AS PART OF HIS WORK, PERFORM ALL RELATED DEMOLITION, MODIFICATIONS, RELOCATION OF SERVICES AND RELATED WORK, INCLUDING NEW WORK NECESSARY TO COMPLETE THE PROJECT

2 THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BIDS. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL WORK SHOWN ON OTHER DRAWINGS AND VISIT THE SITE TO DETERMINE THE EXTENT OF THE DEMOLITION AND NEW WORK REQUIRED

3 THE ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT EQUIPMENT AND ELECTRICAL CIRCUITS IN THE RENOVATION AREA OR ANY PART OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM THE OWNER. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA

4 ITEMS REMOVED AND NOT SCHEDULED TO BE RELOCATED SHALL BE OFFERED TO THE OWNER FOR THEIR USE AND IF NOT ACCEPTED BY OWNER, THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIAL FROM THE SITE IN ACCORDANCE WITH E.P.A REGULATIONS. THE ELECTRICAL CONTRACTOR SHALL DELIVERY ITEMS ACCEPTED BY THE OWNER TO THE DESIGNATED LOCATION AS DIRECTED BY THE OWNER.

5 IN ALL CASES WHERE WORK IS REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO SUSTAIN OPERATION OF ALL PARTS OF SYSTEMS CONNECTING TO, OR FROM, THE PART REMOVED, COMPLETING ALL WORK IN STRICT ACCORDANCE WITH APPLICABLE CODES

6 ALL WIRING, CABLES AND FEEDERS INCLUDING BOTH CONNECTED TO DEVICES AND EQUIPMENT TO BE DEMOLISHED AND EXISTING THAT WERE ABANDONED IN PLACE SHALL BE REMOVED BACK TO THEIR SOURCES UNLESS NOTED OTHERWISE. CONDUITS AND/OR WIRING SHALL WHERE NECESSARY, BE RECIRCUITED AROUND THE REMOVED PART, KEEPING OCCUPIED PARTS OF THE BUILDING SYSTEM IN FULL SERVICE. EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATION OF SERVICES, EQUIPMENT AND MATERIALS RELATING TO EACH HVAC, PLUMBING/FIRE PROTECTION AND ELECTRICAL TRADE, RESPECTIVELY

7 ALL EXISTING CONDUITS WHICH HAS BEEN ABANDONED OR IS UNUSED SHALL BE REMOVED

8 PROVIDE BLANK METAL COVER PLATES FOR ALL JUNCTION/DEVICE BOXES NO LONGER IN USE THAT ARE EMBEDDED IN FLOOR SLAB OR MASONRY WALLS. PROVIDE PLUGS FOR ALL PANELS WHERE CONDUIT HAS BEEN REMOVED. COVER PLATES SHALL BE PAINTED TO MATCH EXISTING CONDITIONS

9 COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND THE G.C. FOR EXISTING PARTITIONS TO BE REMOVED. DISCONNECT EXISTING BRANCH CIRCUITS SERVING DEVICES IN PARTITIONS TO BE REMOVED. MAINTAIN CONTINUITY OF CIRCUITS SERVING EXISTING DEVICES IN OTHER AREAS TO REMAIN

10 ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED

11 ELECTRICAL CONTRACTOR SHALL PROVIDE UPDATED TYPE WRITTEN PANEL DIRECTORIES FOR ALL PANELS AFFECTED BY THE DEMOLITION AND/OR NEW WORK. CIRCUIT BREAKERS NOT USED FOR NEW WORK SHALL BE LABELED AS SPARE

12 FOR EXISTING DEVICES/CIRCUITRY THAT ARE INDICATED TO BE REMOVED BACK TO POINT OF ORIGIN – THESE ITEMS ARE TO BE REMOVED BACK TO POINT OF ORIGIN UNLESS THERE WILL BE EXISTING DEVICES ON THE SAME CIRCUIT THAT ARE LOCATED OUTSIDE AREA OF WORK THAT ARE TO REMAIN. IN THAT CASE, REMOVE THE EXISTING DEVICES/CIRCUITRY IN AREA OF WORK BACK TO THESE EXISTING DEVICES TO REMAIN. ALL DEVICES/CIRCUITRY IN SURROUNDING AREAS THAT ARE TO REMAIN ARE TO BE KEPT ENERGIZED. FOR REMOVAL OF CONDUIT AND WIRING OUTSIDE OF AREA OF WORK COORDINATE AND SCHEDULE WITH OWNER PRIOR TO PERFORMING WORK.

13 NO WORKS SHALL BE LEFT INCOMPLETE, NOR ANY HAZARDOUS SITUATION CREATED, WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S PRIOR WRITTEN PERMISSION.

DEMOLITION NOTES

SCALE: N.T.S.

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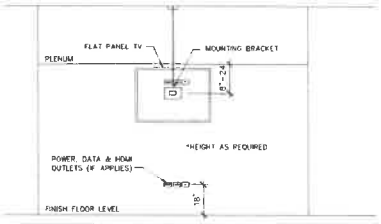
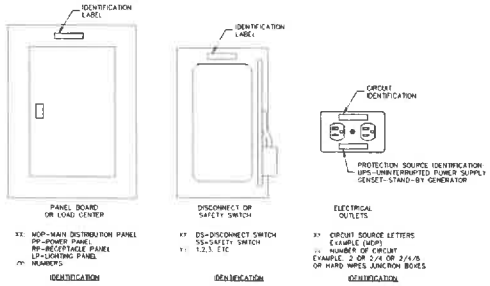
8TH FLOOR
ELECTRICAL DEMOLITION

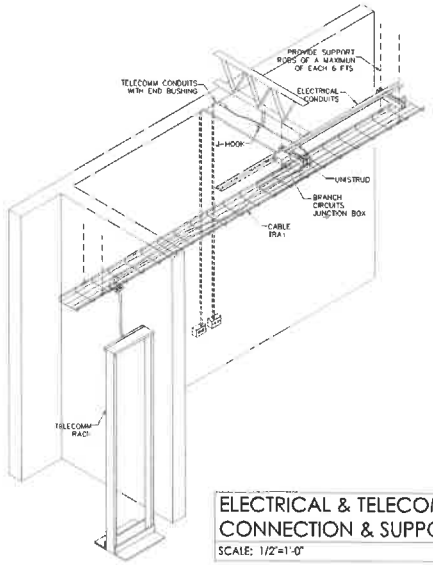
SCALE 1/4"=1'-0"
DRAWING No. ED-01
PROJECT No.
DATE
SHEET No.



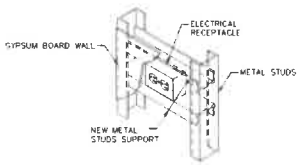
TYPICAL POWER & VIDEO OUTLET	DETAIL: A
SCALE: 1/4"=1'-0"	ID: E018



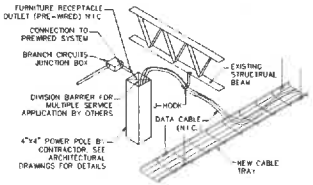
ELECTRICAL RECEPTACLE CIRCUIT IDENTIFICATION	DETAIL: E
SCALE: 3"=1'-0"	ID: E074



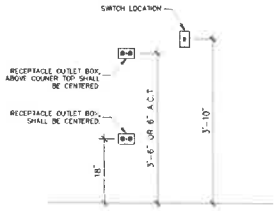
ELECTRICAL & TELECOMM CONNECTION & SUPPORT	DETAIL: I
SCALE: 1/2"=1'-0"	ID: E075



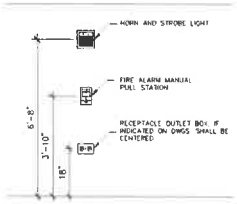
TYPICAL ELECTRICAL RECEPTACLES SUPPORT	DETAIL: B
SCALE: 1 1/2"=1'-0"	ID: E073



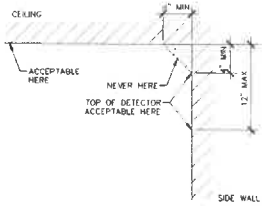
FURNITURE MULTI-SERVICE TRANSITION	DETAIL: F
SCALE: 1/2"=1'-0"	ID: E075



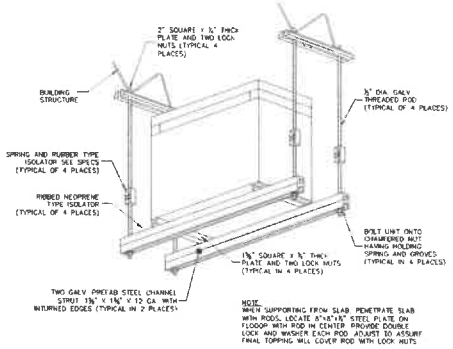
ELECTRICAL RECEPTACLES INSTALLATION DETAIL	DETAIL: C
SCALE: 3/4"=1'-0"	ID: F005



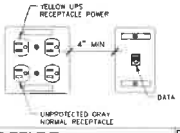
FIRES STATION & HORN INSTALLATION DETAIL	DETAIL: G
SCALE: 3/4"=1'-0"	ID: F005



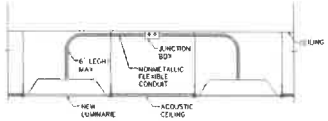
TYPICAL DETAIL: FIRE ALARM LOCATION	DETAIL: J
SCALE: 1 1/2"=1'-0"	ID: F001



TYPICAL DETAIL: TRANSFORMER SUPPORT	DETAIL: K
SCALE: 3/4"=1'-0"	ID: E060



CLOSE OFFICE OUTLET LAYOUT	DETAIL: D
SCALE: 3"=1'-0"	ID: E074



FLUORESCENT LIGHT TYPICAL CONNECTION	DETAIL: H
SCALE: 3/4"=1'-0"	ID: E035

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ELECTRICAL DETAILS

SCALE: AS NOTED

DRAWING No. E0-02

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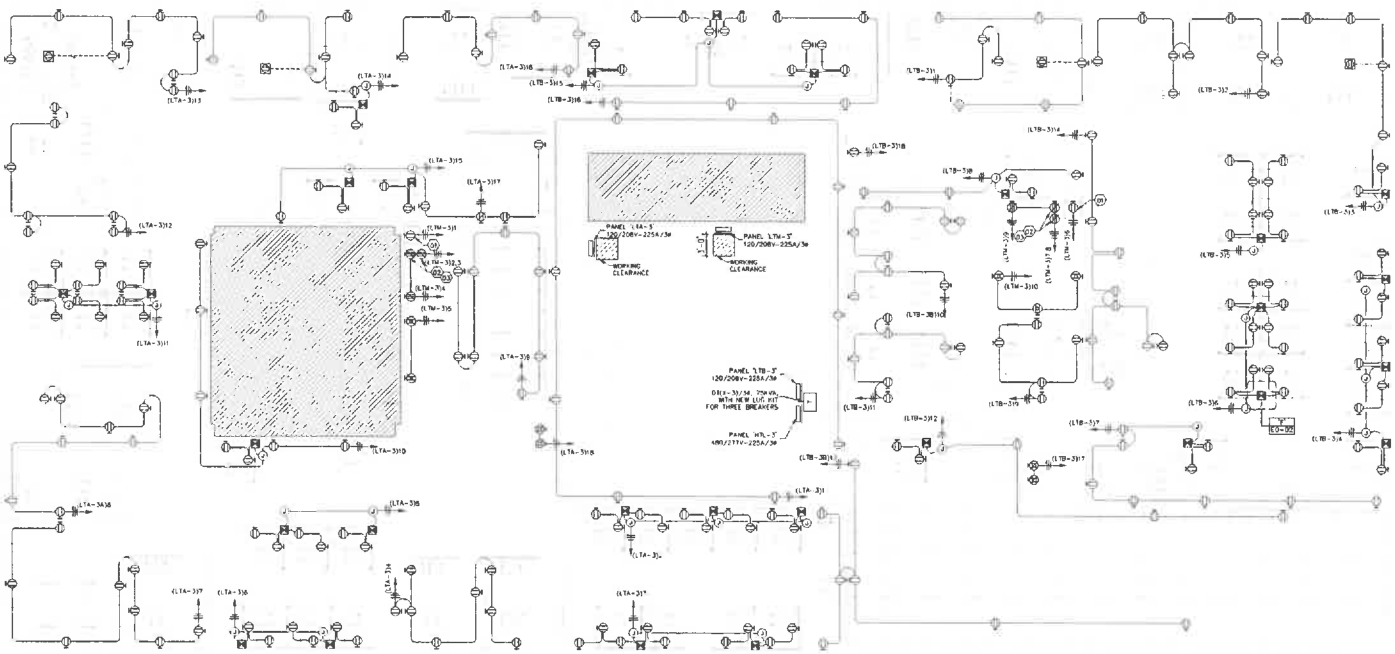

EXISTING ELECTRICAL CONDITIONS TO REMAIN. CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL INFRASTRUCTURE CONDITIONS BEFORE INSTALLATION

ELECTRICAL FLOOR PLAN

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

KITCHEN EQUIPMENT ELECTRICAL SCHEDULE

ID	DESCRIPTION	RECEPTACLE HEIGHT	EXPOSED OR CONCEALED	VOLTS (V)
01	REFRIGERATOR	18"	CONCEALED	120
02	MICROWAVE	58"	CONCEALED	120
03	MICROWAVE	24"	CONCEALED	120

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8TH FLOOR ELECTRICAL FLOOR PLAN

SCALE 1/8"=1'-0"

DRAWING No. E1-01

DESIGNATION	BRAND	MAIN	VOLTAGE (V)	CIRCUIT NUM	CIRCUIT POLES	CIRCUIT AMPS	LOAD
'HTL-3'	SQUARE D	EXISTING	277/480V	1-9	1	20	LIGHTING
LOCATION:	TYPE:	CAPACITY (A)	SYSTEM	10,11	1	20	EMERGENCY LIGHTS
ELECTRICAL ROOM	NEMA 1	225	4W	12/14/16	3	100	DRY TYPE 'X-3'
		INT. CAPACITY (K.A.I.C.)		13/15/17	3	20	AHU-01 SAFETY SWITCH
		-		18/20/22	3	20	AHU-02 SAFETY SWITCH
				23-42	-	-	SPACE
DESIGNATION	BRAND:	MAIN	VOLTAGE (V)	CIRCUIT NUM	CIRCUIT POLES	CIRCUIT AMPS	LOAD
'LTA-3'	SQUARE D	LUGS	120/208V	1-16	1	20	RECEPTACLES
LOCATION:	TYPE:	CAPACITY (A)	SYSTEM:	17	1	20	REMOTE FIRE ALARM PANEL
ELECTRICAL ROOM	NEMA 1	225	4W	18	1	20	TELECOMM RACK #1 (DA)
		INT. CAPACITY (K.A.I.C.)		19-30	-		SPACE
		-		31-42	-		SPACE
DESIGNATION	BRAND:	MAIN	VOLTAGE (V)	CIRCUIT NUM	CIRCUIT POLES	CIRCUIT AMPS	LOAD
'LTB-3'	SQUARE D	EXISTING	120/208V	1-16	1	20	RECEPTACLES
LOCATION:	TYPE:	CAPACITY (A)	SYSTEM	17	1	20	TELECOMM RACK #2 (DB)
ELECTRICAL ROOM	NEMA 1	225	4W	18	1	20	REMOTE FIRE ALARM PANEL
		INT. CAPACITY (K.A.I.C.)		19-30	-		SPACE
		-		31-42			SPACE
DESIGNATION	BRAND	MAIN	VOLTAGE (V)	CIRCUIT NUM	CIRCUIT POLES	CIRCUIT AMPS	LOAD
'LTM-3'	SQUARE D	LUGS	120/208V	1,6	1	20	REFRIGERATOR
LOCATION:	TYPE:	CAPACITY (A):	SYSTEM:	2,3	1	20	MICROWAVE RECEPTACLES
ELECTRICAL ROOM	NEMA 1	225	4W	4	1	20	KITCHEN COUNTER RECEPTACLE
		INT. CAPACITY (K.A.I.C.):		5	1	20	MICROWAVE RECEPTACLES
		-		6	1	20	REFRIGERATOR
				7,8	1	20	MICROWAVE RECEPTACLES
				9	1	20	KITCHEN COUNTER RECEPTACLE
				10	1	20	MICROWAVE RECEPTACLES
				11	1	20	HAND DRYER WOMAN BATHROOM
				12	1	20	HAND DRYER MEN BATHROOM
				13-42	1	20	SPACE

ELECTRICAL PANEL SCHEDULE

SCALE: N.T.S.

CONDUITS & CONDUCTORS INFORMATION				
BREAKER	CURRENT CARRYING CONDUCTOR SIZE	GROUND CONDUCTION	CONDUITS SIZE* 1 POLE	CONDUITS SIZE* 3 POLES
15A	#12	#12	¾"ø	¾"ø
20A	#12	#12	¾"ø	¾"ø
25A	#10	#10	¾"ø	¾"ø
30A	#10	#10	¾"ø	¾"ø
35A	#8	#10	¾"ø	¾"ø
40A	#8	#10	¾"ø	¾"ø
45A	#6	#10	1"ø	1"ø
50A	#6	#10	1"ø	1"ø
60A	#4	#10	1"ø	1¼"ø
70A	#4	#8	1"ø	1¼"ø
80A	#3	#8	1"ø	1¼"ø
90A	#2	#8	1¼"ø	1½"ø
100A	#2	#8	1¼"ø	1½"ø
125A	#1	#6	1¼"ø	1½"ø
150A	#1/0	#6	1¼"ø	2"ø
175A	#2/0	#6	1½"ø	2"ø
200A	#3/0	#3	1½"ø	2"ø

*ASSUME THHN/THWN INSULATION AND EMT CONDUIT. OTHER TYPES OF INSULATION AND CONDUITS MATERIALS ARE DESCRIBE BELOW

CONDUITS & CONDUCTORS SCHEDULE

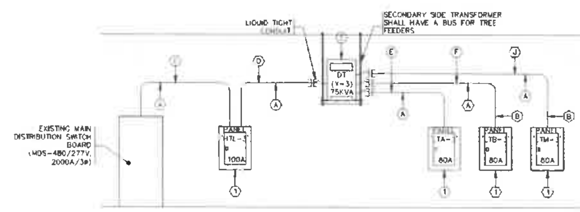
SCALE: N.T.S.

ID	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	BALLAST TYPE	LAMPS OR TUBES NUM.	LAMPS OR TUBES WATTS	LAMPS OR TUBES TYPE	TOTAL WATTS
L1	2'X2' LED FIXTURE	LITHONIA LIGHTING	3400LM 80 CRI 40K MIN10 ZT 277V	277	DR	-	-	-	-
ES	EXIT SIGN	LITHONIA LIGHTING	ECBG LED M6	277	DR	1	3	LED	3

FIXTURE NOTES
- EB DENOTES 'ELECTRONIC BALLAST'.
- DB DENOTES 'DIMMABLE BALLAST'.
- IN DENOTES 'INCANDESCENT LAMP'

LIGHTING SCHEDULE

SCALE: N.T.S.



1 - ELECTRICAL PANEL 225A, SEE SCHEDULE FOR DETAILS

2 - EXISTING 75KVA 480V PRI /120/208V SEC DRY TYPE TO REMAIN

A - EXISTING FEEDER TO REMAIN. ELECTRICAL CONTRACTOR SHALL VERIFY THAT CABLE CONDITION AND INSULATION ARE IN OPERATIONAL CONDITIONS BEFORE RE-ENERGIZE.

B - IF NO EXISTING CONDUIT ELECTRICAL CONTRACTOR SHALL VERIFY THAT ITS PATHWAY TO BE CONSTRUCTED BEFORE RE-ENERGIZE

C - (4)#2/0-CU-IN 2"ø EMT CONDUIT

D - (4)#2/0-CU-THW IN 1.25"ø EMT CONDUIT

E - (4)#4/0-CU-THW IN 2.5"ø EMT CONDUIT

F - (4)#4-CU-THW IN 1.25"ø EMT CONDUIT

J - (4)#4-CU-THW IN 1.25"ø EMT CONDUIT

ELECTRICAL SINGLE LINE DIAGRAM

SCALE: N.T.S.

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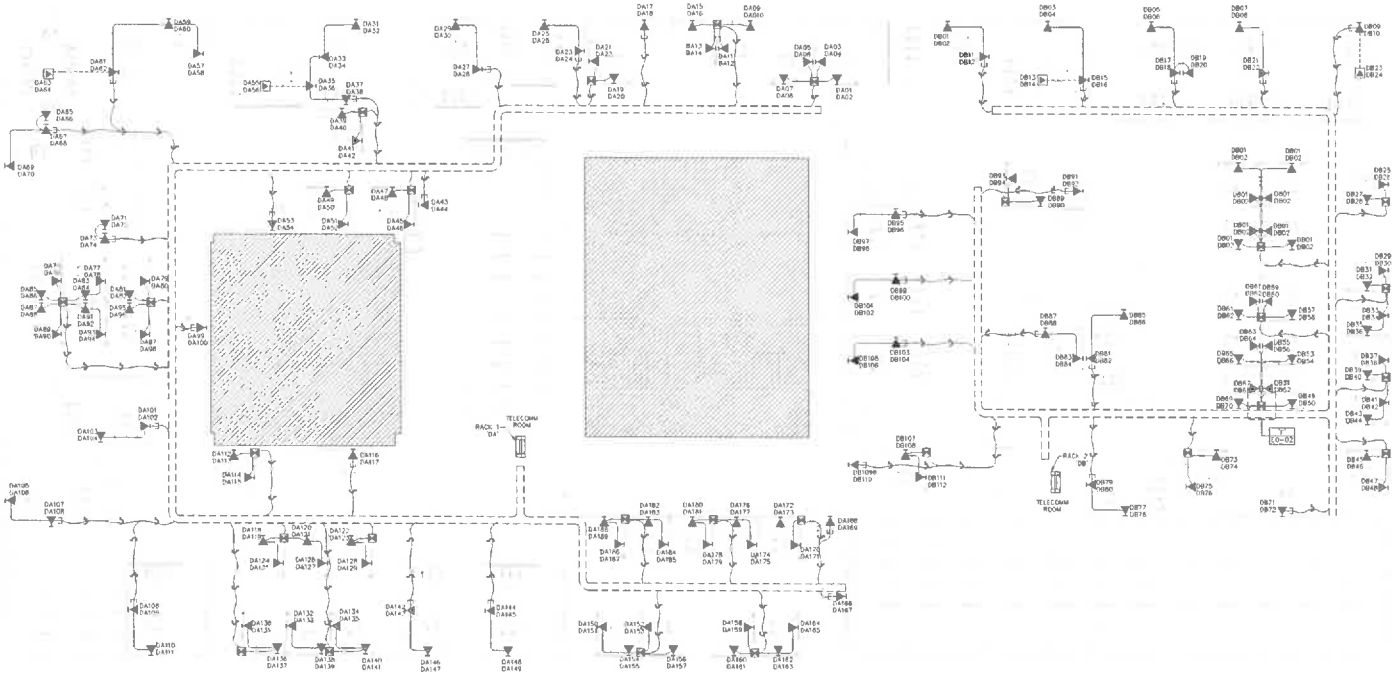
DRAWING TITLE
ELECTRICAL SCHEDULES

SCALE: AS NOTED
DRAWING No: E2-01
PROJECT No:
DATE:
SHEET No:



TELECOMM FLOOR PLAN

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

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NOV/05/2021

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DRAWING TITLE

EIGHTH FLOOR TELECOMM PLAN

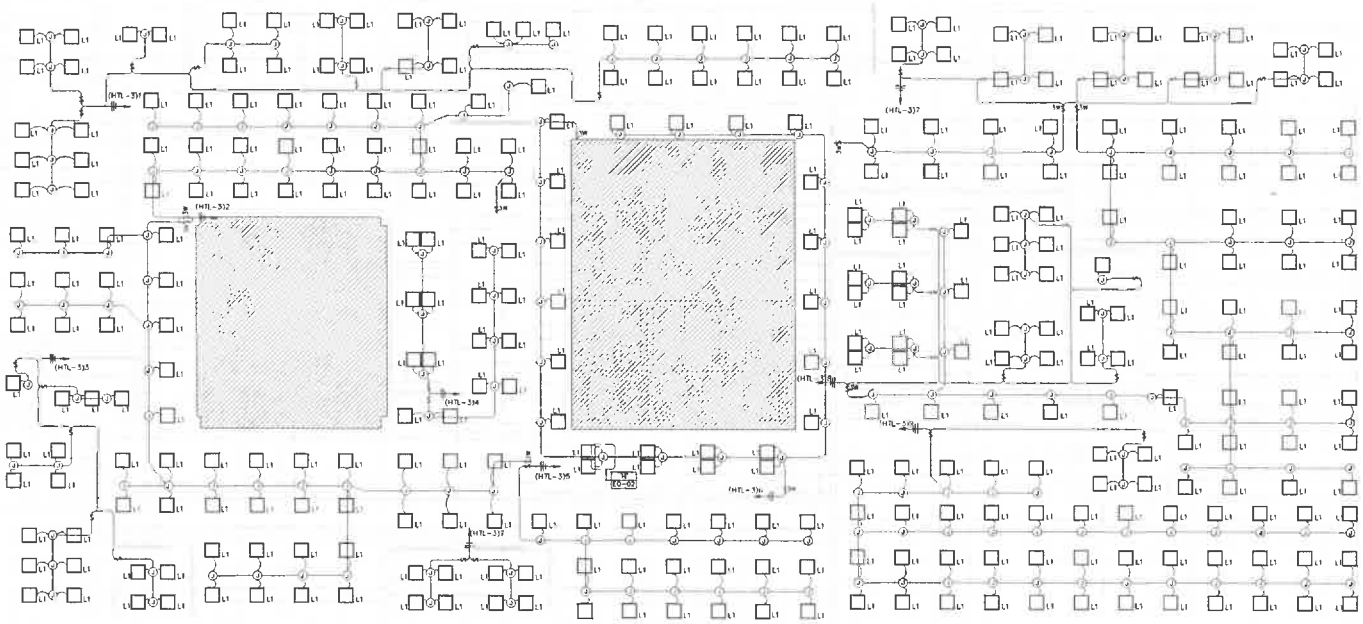
SCALE 1/8"=1'-0"

DRAWING No. T1-01

PROJECT No.

DATE

SHEET No.



EXISTING ELECTRICAL CONDITIONS TO REMAIN
CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL INFRASTRUCTURE CONDITIONS BEFORE INSTALLATION

LIGHTING FLOOR PLAN

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

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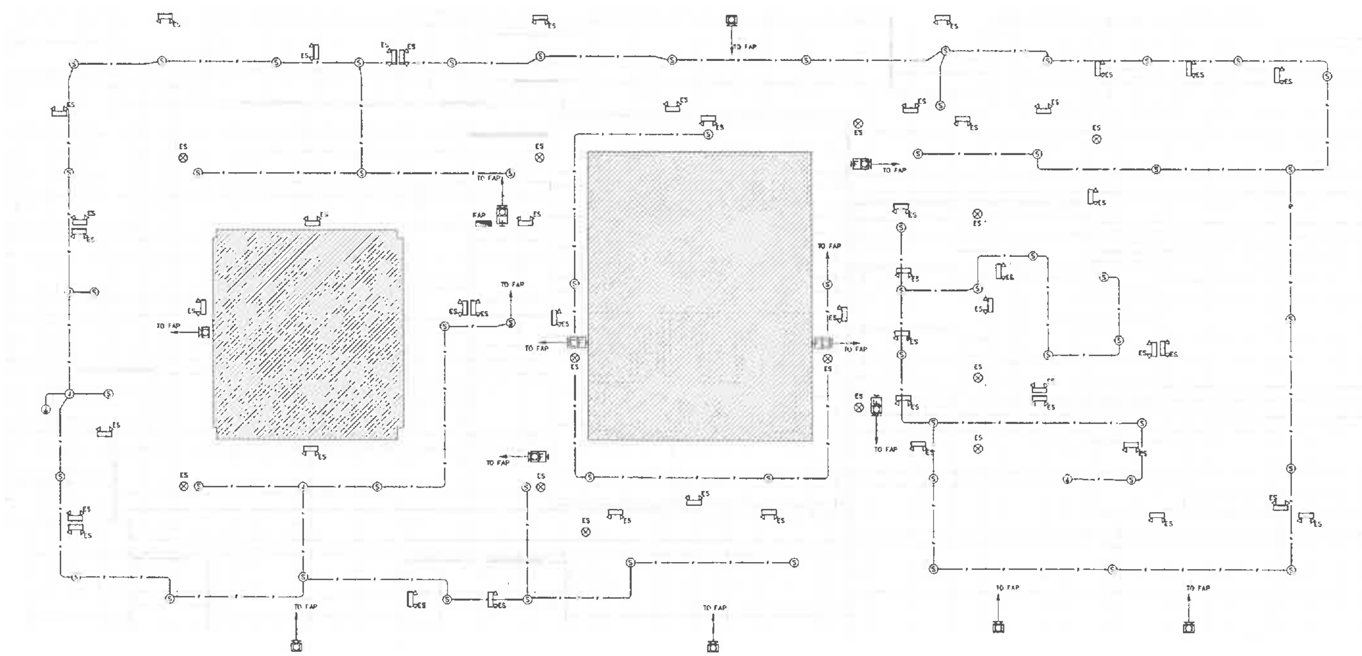
DRAWING TITLE

8TH FLOOR LIGHTING FLOOR PLAN

SCALE 1/8"=1'-0"

DRAWING No. L1-01



EXISTING ELECTRICAL CONDITIONS TO REMAIN
CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL INFRASTRUCTURE CONDITIONS BEFORE INSTALLATION

IMPORTANT NOTE:
- CONNECT EXIT SIGN & EMERGENCY LIGHTS ON CIRCUITS (HTL-3)7 & (HTL-3)8
- SMOKE DETECTOR MUST CONNECT TO FAP

FIRE ALARM FLOOR PLAN

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

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DRAWING TITLE
8TH FLOOR FIRE ALARM FLOOR PLAN

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

DRAWING NO.: F1-01

5-20R GFCI DUPLEX RECEPTACLE, P&S 2095-GRY IN 4"x4" JUNCTION BOX WITH TP8-GRY ONE GANG WALL PLATE @ 18" A.F.F. IN HORIZONTAL POSITION

5-20R DUPLEX RECEPTACLE, P&S BR20-GRY IN 4"x4" JUNCTION BOX WITH TP8-GRY ONE GANG WALL PLATE @ 18" A.F.F. IN HORIZONTAL POSITION

DITTO BUT POWERED FROM UPS

5-20R GFCI DUPLEX RECEPTACLE, P&S 2095-GRY IN 4"x4" JUNCTION BOX WITH TP8-GRY ONE GANG WALL PLATE @ 42" A.F.F. OR 6" A.C.T. IN HORIZONTAL POSITION

5-20R DUPLEX RECEPTACLE, P&S BR20-GRY IN 4"x4" JUNCTION BOX WITH TP8-GRY ONE GANG WALL PLATE @ 42" A.F.F. OR 6" A.C.T. IN HORIZONTAL POSITION

5-20R QUADRUPLEX RECEPTACLE, P&S 420-GRY IN 4"x4" JUNCTION BOX @ 18" A.F.F. IN HORIZONTAL POSITION

5-20R QUADRUPLEX RECEPTACLE, P&S BR20-GRY IN 4"x4" JUNCTION BOX @ 42" A.F.F. OR 6" A.C.T.

5-15R DUPLEX RECEPT / OUTLET AND USB CHARGER, RKAA2-G IN 4x4" JUNCTION BOX WITH REWP1-PG ONE GANG WALL PLATE @ 42" A.F.F. OR 6" A.C.T. IN HORIZONTAL POSITION

5-20R SINGLE RECEPTACLE, P&S 53713-I IN 4"x4" JUNCTION BOX IN GRADE

TOGGLE SWITCH FOR A/C EXHAUST FAN 20A/208V/3Ø

EXISTING ELECTRICAL LOADCENTER PANEL SEE PANEL SCHEDULE FOR DETAILS

SAFETY SWITCH WITH NUMBER OF POLES AND RATING AS REQUIRED. NEMA 3R ENCLOSURE IF LOCATED OUTDOORS. SEE SAFETY SWITCH SCHEDULE FOR DETAILS

DRY-TYPE TRANSFORMER SEE SINGLE LINE DIAGRAM FOR DETAILS

NOTES:

1) RECEPTACLES SHALL BE EQUAL OR SIMILAR TO THE SPECIFIED
2) MODULAR OUTLETS MUST BE COMPATIBLE WITH NEW FURNITURE
3) HEIGHTS DESCRIBED IN LEGEND CAN BE OVER WRITED ON DRAWINGS
4) NEUTRAL CONDITIONS SHALL BE COMMON IN NO MORE THAN TWO CIRCUITS

ELECTRICAL LEGEND

SCALE: N.T.S.

1. ALL INDICATED HEIGHTS ARE FROM CENTER OF THE EQUIPMENT TO FINISHED FLOOR UNLESS INDICATED
2. NO WIRE SHALL BE SMALLER THAN #12 AWG THHN, 600V INSULATION
3. NO CONDUIT SHALL BE SMALLER THAN 3/4" DIAMETER
4. ELECTRICAL CONTRACTOR SHALL BALANCE ALL THE LOADS
5. PROVIDE GREEN BONDING JUMPER BETWEEN THE OUTLET BOX GROUNDING SCREW AND ALL RECEPTACLES, GROUNDING TERMINALS, EXCEPT SELF-GROUNDING TYPE RECEPTACLES
6. PROVIDE MULTI-WIRE BRANCH CIRCUITS UTILIZING COMMON NEUTRALS(EXEPT WHEN OTHERWISE NOTED), FOR LIGHTING, RECEPTACLES AND SINGLE PHASE EQUIPMENT CIRCUIT NUMBERS ADJACENT TO THE "HOME RUN" ARE INDICATED AS A GUIDE FOR PROPER CONNECTIONOF MULTIWIRE CIRCUIT AT PANELS. THE CONTRACTOR SHALL COORDINATE THE FINAL ARRANGEMENT AND ROUTING OF BRANCH CIRCUITS
7. ALL WIRING SHALL BE DONE IN E.M.T. CONDUIT UNLESS SPECIFIED
8. UF CABLES ARE NOT ALLOWED, ONLY STRANDED COPPER THHN (OR AS SPECIFIED) INSULATED SHALL BE USED.
9. ELECTRICAL CONTRACTOR SHALL REVIEW DIMENSION OF JUNCTION BOXES TO ENSURE CABLE PERMISSIBLE RADIUS AT FIELD
10. ELECTRICAL CONTRACTOR SHALL COORDINATE, WITH ALL TRADES, THE CONDUIT ROUTING IN ORDER TO AVOID CONFLICTS. IN CASE OF CONFLICT THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT
11. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME ACQUAINTED WITH THE EXISTING FIELD CONDITIONS IT SHALL BE THE DIRECT RESPONSABILITY OF THE CONTRACTOR TO BRING PROMPTLY TO THE ATTENTION OF THE DESIGNER ANY DISCREPANCIES BETWEEN THE EXISTING FIELD CONDITIONS AND THOSE USED FOR DESIGN PURPOSES
12. THE CONDUIT TRAYECTORY SHOWN IN THE LAYOUTS IS OF A SCHEMATIC NATURE AND IS INTENDED ONLY TO INDICATE INTERCONNECTIONS BETWEEN OUTLETS. EXACT ROUTING OF THE CONDUITS SHALL BE DETERMINED AT JOB SITE TO CONFORM TO THE STRUCTURAL CONDITIONS AND SHALL BE APPROVED BY THE ENGINEER
13. PROVIDE EXPANSION JOINT COUPLINGS OF THE REQUIRED TYPE AND SIZE WHENEVER A CONDUIT CROSSES AN EXPANSION JOINT
14. ELECTRICAL CONTRACTOR MUST MAKE SURE THAT THE ENTIRE ELECTRICAL SYSTEM HAS GROUND CONTINUITY.
15. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENTS WITH THE EQUIPMENT SUPPLIER, BEFORE FINAL CONNECTION OF CONDUITS AND WIRING
16. PROVIDE TYPEWRITTEN IDENTIFICATION CARDS FOR ALL BRANCH CIRCUITS INSIDE THE PANELBOARDS.
17. ALL RELATED ELECTRICAL EQUIPMENT SHALL BE NEW AND CONSTRUCTED ACCORDING TO ANSI, NEMA AND PREPA STANDARDS
18. ALL ELECTRICAL CONSTRUCTION WORKS SHALL BE DONE IN A THROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS, SPECS AND CONSTRUCTION DRAWINGS. THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE SHALL BE FOLLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT
19. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY INTERCONNECTIONS BETWEEN THE MOTORS AND THE MOTORS AND THE STARTING/DISCONNECTING EQUIPMENT

ELECTRICAL NOTES

SCALE: N.T.S.

CONDUIT STUBBED AND BUSHED

CONCEALED RACEWAY IN FLOOR, UNDERFLOOR OR UNDERGROUND

CABLETRAY AT PLENUM, DIMENSION INDICATED ON DRAWINGS

HOMERUN TO PANELBOARD WITH CIRCUIT NUMBERS AS INDICATED SHORT LEG, LONG LEG & LONG LEG WITH TICK INDICATES HOT, NEUTRAL & GROUND RESPECTIVELY

4"X4"X2" JUNCTION BOX INSIDE PLENUM OR CONCEALED IN CEILING FACING DOWN

J-HOOK INSIDE PLENUM

FURNITURE MULTI-SERVICE POWER POLE

4"X4"X2" JUNCTION BOX WALL MOUNT @ 18" AFF UNLESS OTHERWISE NOTED

4"X4" JUNCTION BOX WALL MOUNT @ 7'-6" A.F.F. UNLESS OTHERWISE NOTED

WIRING METHOD LEGEND

SCALE: N.T.S.

TELECOMM OUTLET IN 4"x4" JUNCTION BOX @ 18" A.F.F. IN HORIZONTAL POSITION

TELECOMM OUTLET IN 4"x4" JUNCTION BOX WITH AC-SFP ONE GANG WALL PLATE @ 42" A.F.F. OR 8" A.C.T. IN HORIZONTAL POSITION

FLUSH FLOOR TELECOMM OUTLET WALKER 880C SERIES CAST IRON, GANG TYPE, FULLY ADJUSTABLE FLOOR BOX WITH BRASS COVER PLATE AND FLANGE

TELECOMM CONDUIT. MINIMUM 1" EMT CONDUIT WITH PULL STRING, UNLESS OTHERWISE NOTED

TELEPHONE PLYWOOD FIRE RESISTANT TREATED

TELECOMM LEGEND

SCALE: N.T.S.

1. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO PERFORM ALL OPERATIONS REQUIRED FOR THE COMPLETE INSTALLATION AND RELATED WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER
2. MINIMUM SIZE OF CONDUITS TO BE AS FOLLOWS: 1"ø FOR TELECOMMUNICATIONS, ¾"ø FOR SECURITY & AUDIO, OR AS SPECIFIED IN PLANS
3. ALL CONDUITS SHALL BE PROVIDED WITH A 1/4" NYLON FISHWIRE
4. PROVIDE ALL REQUIRED SUPPORTS AND ACCESSORIES
5. INSTALL ALL WORK IN COMPLIANCE WITH THE LATEST EDITION OF:
   A. THE NATIONAL ELECTRICAL CODE, NFPA-70
   B. BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
   C. JUNTA REGLAMENTADORA DE TELECOMUNICACIONES (JRT) REQUIREMENTS
6. PROVIDE COVERS DESIGN AND STYLE TO SUIT BOX AND LOCATION
7. FLUSH RECESSED WHEREVER POSSIBLE AND SECURELY SUPPORTED FROM BUILDING CONSTRUCTION
8. MOUNTING HEIGHT OF OUTLET BOXES SHALL BE 1'-6" AFF OR AS INDICATED IN THE PLANS
9. TELECOMMUNICATION CABLES AND ELECTRICAL WIRING SHALL NEVER PASS THROUGH THE SAME HOLES OR SHAPE SAME CONDUIT
10. MINIMUM CONDUIT BENDS RADIO SHALL BE AS FOLLOWS:
    18" FOR 1" TO 1.5" DIAM. CONDUIT
    24" FOR 2" DIAM. CONDUIT
    30" FOR 3" TO 4" DIAM. CONDUIT
11. PROVIDE 1"ø LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT & FITTINGS FOR ALL TRANSITIONS BETWEEN JUNCTION WALL OR FLOOR BOXES AND MODULAR FURNITURE SYSTEMS OR TABLE BOXES
12. COORDINATE EXACT LOCATION OF FLOOR BOXES WITH ARCHITECT AT FIELD
13. PROVIDE CABLE SLACK OF 12" AT OUTLET BOX AND 10' ORGANIZED ON TOP OF THE RACK IN A FIGURE "8"
14. ALL NON-WELDED CONNECTIONS TO THE TGB AND TO THE OBJECTS BEING BONDED SHALL BE MADE WITH TWO-HOLE LUGS
15. NO MORE THAN 180 DEGREES OF CONDUIT BENDS SHALL BE PERMITTED BETWEEN PULL POINTS
16. CABLING NOT IN CONTRACT
17. SUPPORT AND BOND CONDUITS TO CABLE TRAY
18. ALL TELECOMMUNICATIONS WORKS WITHIN COMMUNAL AREAS SHALL BE CARRIED OUT BY THE ADMINISTRATION OFFICE'S DESIGNATED CONTRACTOR

TELECOMM NOTES

SCALE: N.T.S.

1'x4' LIGHTING FIXTURE AND OUTLET. IDENTIFICATION NUMBER AS INDICATED IN LUMINAIRE SCHEDULE

2'x2' LIGHTING FIXTURE AND OUTLET. IDENTIFICATION NUMBER AS INDICATED IN LUMINAIRE SCHEDULE

FIXTURES WITH SHADING SHALL BE CONNECTED TO EMERGENCY POWER SOURCE. 1100 LUMEN OUTPUT BATTERY PACK OR APPROVED EQUAL

4"x4" JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION TO FIXTURE

SINGLE POLE SWITCH, P&S 2821-I IN 2"x4" JUNCTION BOX WITH TPJ26-I ONE GANG WALL PLATE @ 46" A.F.F. IN VERTICAL POSITION

GANGED TOGETHER

THREE-WAY SWITCH, P&S 2823-I IN 2"x4" JUNCTION BOX WITH TPJ26-I ONE GANG WALL PLATE @ 46" A.F.F. IN VERTICAL POSITION

LIGHTING LEGEND

SCALE: N.T.S.

1. LETTER "L" AND NUMBER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHTING FIXTURE SCHEDULE. SMALL LETTER INDICATES SWITCH WITH CORRESPONDING SMALL LETTER CONTROLLING FIXTURE. FIXTURE SYMBOLSWITH SHADING DENOTES FIXTURES TO BE USED AS NIGHT AND/OR EMERGENCY SYSTEM
2. FOR THE EXACT LOCATION OF LIGHTING FIXTURES IN AREAS HAVING A HUNG CEILING, SEE LIGHTING REFLECTED CEILING PLAN.
3. FINAL LOCATION FOR FIXTURES MOUNTED IN EXPOSED AREAS IS TO BE COORDINATED WITH THE HVAC DUCTS AND EQUIPMENT, PIPING CONDUITS OR PIPE RACKS.
4. ALL LIGHTING FIXTURES SHOWN WITH HATCH SHALL BE PROVIDED WITH EMERGENCY BATTERY PACKOF TWO HOUR OPERATION
5. FIXTURES WITH HATCH SHALL BE NIGHT LIGHT & EMERGENCY BATTERY PACK.
6. FOR LIGHTING FIXTURES SCHEDULES AND ADDITIONAL NOTES SEE SHEET L2-01.
7. THE CONTRACTOR IS RESPONSIBLE FOR ADECUATE CONNECTION OF THE PARKING LIGHTING SYSTEM IN ORDER FOR IT TO OPERATE ADECUATELY. SEE LIGHTING CONTROL DIAGRAM FOR DETAILS.
8. ALL CIRCUIT BREAKER USED TO CONTROL LIGHTING CIRCUITS SHALL BE RATED FOR SWITCHING DUTY.
9. ALL LIGHTING FIXTURES SHALL BE U/L LISTED. FLUORESCENT BALLAST SHALL BE U/L APPROVED AND HAVE A HIGH POWER FACTOR
10. CONTRACTOR SHALL VERIFY PANEL VOLTAGES BEFORE BUYING LIGHT FIXTURES AND/OR WIRING DEVICES

LIGHTING NOTES

SCALE: N.T.S.

FIRE ALARM SMOKE DETECTOR, COMPATIBLE WITH HONEYWELL PHOTOELECTRIC TYPE @ CEILING

FIRE ALARM HEAT DETECTOR, COMPATIBLE WITH HONEYWELL PHOTOELECTRIC TYPE @ CEILING

FIRE ALARM MANUAL PULL STATION, COMPATIBLE WITH HONEYWELL @ 46" A.F.F. UNLESS OTHERWISE NOTED.

CEILING MOUNTED EXIT FIXTURE WITH DIRECTIONAL ARROWS AS INDICATED. IDENTIFICATION NUMBER AS INDICATED IN LUMINAIRE SCHEDULE

FIRE ALARM HORN AND STROBE, COMPATIBLE WITH HONEYWELL @ 80" A.F.F. OR 6" BELOW CEILING WHICHEVER IS LOWER MINIMUM 60 CANDELA

FIRE ALARM REMOTE PANEL, COMPATIBLE WITH EXISTING HONEYWELL MAIN F/A PANEL. COORDINATE WITH BUILDING OWNER @ 5'-0" A.F.F. FROM CENTER

EMERGENCY LIGHTING CEILING OR WALL FIXTURE. IDENTIFICATION NUMBER AS INDICATED IN LUMINAIRE SCHEDULE

NOTES
SEE SPECIFICATIONS FOR DEVICE AND WIRING REQUIREMENTS. ALL SYSTEM IS EXISTING AND ADDITIONAL DEVICES SHALL BE COMPATIBLE WITH EXISTING BUILDING ALARM SYSTEM MODEL HONEYWELL.

FIRE ALARM LEGEND

SCALE: N.T.S.

1. ALL CONDUITS, WIRING & DEVICE REQUIREMENTS SHALL BE COORDINATED WITH THE MANUFACTURER PRIOR TO INSTALLATION. CONDUITS SHALL BE 3/4" EMT FOR CEILING PLENUM OR WALLS AND 3/4" PVC FOR CONCRETE SLABS
2. ALL JUNCTION BOXES FOR THE FIRE ALARM SYSTEM SHALL BE IDENTIFIED AND PAINTED RED
3. THE WIRING OF THE FIRE ALARM SYSTEM SHALL BE CLASS "B".
4. THE CONTRACTOR SHALL INSTALL ALL REQUIRED WIRING & DEVICES TO COMPLETE THE SYSTEM AS ILLUSTRATED ON DRAWINGS
5. SMOKE DETECTORS SHALL NOT BE INSTALLED MORE THAN SIX INCHES (6") FROM THE HIGHEST POINT OF CEILING SLAB. COORDINATE THE EXACT REQUIREMENTS WITH MANUFACTURER.
6. THE MECHANICAL CONTRACTOR SHALL INSTALL ONE SMOKE DETECTOR IN THE SUPPLY DUCT HOUSING FOR AIR HANDLING UNITS (A/C) OF 2,000 TO 15,000 CFM. FOR MORE THAN 15,000 CFM CONTRACTOR SHALL INSTALL ANOTHER SMOKE DETECTOR IN THE RETURN DUCT HOUSING. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL DRAWINGS AND WITH MANUFACTURER
7. THE FIRE ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED COMPLETE WITH ALL ACCESSORIES FOR A NORMAL OPERATION AS REQUIRED BY APPLICABLE CODES, THE OWNER AND "AMERICANS WITH DISABILITIES ACT" (ADA)

FIRE ALARM NOTES

SCALE: N.T.S.

A/C	AIR CONDITIONING
A.C.T.	ABOVE COUNTER TOP
A.F.C.	ABOVE FINISHED CEILING
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GROUND
A.F.C.I.	ARC FAULT CIRCUIT INTERRUPTER
A.H.J.	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AMPS	AMPERES
A.N.S.I.	AMERICA NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL, ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAGE
B.F.F.	BELOW FINISHED FLOOR
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
CKT	CIRCUIT
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE THROW
DPST	DOUBLE-POLE, SINGLE THROW
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EXH	EXHAUST
E	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
F.B.O.	FURNISHED BY OWNER
FLEX	FLEXIBLE
FMC	FLEXIBLE METAL CONDUIT
FMT	FLEXIBLE METAL TUBING
FT	FOOT, FEET
GND	GROUND
GA	GAUGE
GAL	GALLON
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
GND	GROUND
H	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HZ	HERTZ
HV	HIGH VOLTAGE
ID	INSIDE DIAMETER
IG	INSOLATED GROUND
J.B.	JUNCTION BOX
KCMIL	1000 CIRCULAR MILS
KV.	KILOVOLT
KVA	KILOVOLT-AMPS
KW.	KILOWATT
KWH	KILOWATT-HOUR
LTG.	LIGHTING
M	MODULAR OUTLET
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MH	MANHOLE, METAL HALIDE
MIN	MINIMUM
MLO.	MAIN LUGS ONLY
MTD	MOUNTED
N/A	NOT APPLICABLE
N	NORMAR OUTLET
NC.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N.I.C.	NOT IN CONTRACT
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
OCPD	OVERCURRENT PROTECTIVE DEVICE
OSHA.	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P.F.	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC.	POLYVINYL CHLORIDE
QTY	QUANTITY
REQD.	REQUIRED
REV	REVISION, REVISED
RGS.	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
SD	SMOKE DAMPER
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC.	SPECIFICATION
SPD	SURGE PROTECTIVE DEVICE
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
SURF	SURFACE
TR	TAMPER RESISTANT
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP.	TYPICAL
UL	UNDERWRITERS LABORATORIES, INC
UON.	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHER PROOF
WT	WATERTIGHT

ABBREVIATION LEGEND

SCALE: N.T.S.

ABACUS

ARCHITECTURE PSC

CONSULTANT

elementz ENGINEERING PSC

REVISION 1

NO DRAWINGS

PROJECT NAME

NEW IMPROVEMENTS ACAA BUILDING
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

No	DESCRIPTION	DATE

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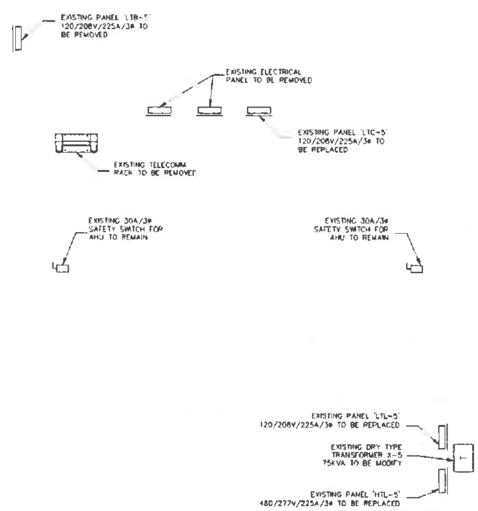
DRAWING TITLE

ELECTRICAL NOTES & LEGENDS

SCALE 1/8"=1'-0"

DRAWING No. E0-01



ELECTRICAL DEMOLITION ROOM PLAN
SCALE: 1/4"=1'-0"

1. THE ELECTRICAL CONSTRACTOR SHALL, AS PART OF HIS WORK, PERFORM ALL RELATED DEMOLITION, MODIFICATIONS, RELOCATION OF SERVICES AND RELATED WORK, INCLUDING NEW WORK NECESSARY TO COMPLETE THE PROJECT
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BIDS. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL WORK SHOWN ON OTHER DRAWINGS AND VISIT THE SITE TO DETERMINE THE EXTENT OF THE DEMOLITION AND NEW WORK REQUIRED
3. THE ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT EQUIPMENT AND ELECTRICAL CIRCUITS IN THE RENOVATION AREA OR ANY PART OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM THE OWNER. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA
4. ITEMS REMOVED AND NOT SCHEDULED TO BE RELOCATED SHALL BE OFFERED TO THE OWNER FOR THEIR USE AND IF NOT ACCEPTED BY OWNER, THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIAL FROM THE SITE IN ACCORDANCE WITH E.P.A REGULATIONS. THE ELECTRICAL CONTRACTOR SHALL DELIVERY ITEMS ACCEPTED BY THE OWNER TO THE DESIGNATED LOCATION AS DIRECTED BY THE OWNER
5. IN ALL CASES WHERE WORK IS REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO SUSTAIN OPERATION OF ALL PARTS OF SYSTEMS CONNECTING TO, OR FROM, THE PART REMOVED, COMPLETING ALL WORK IN STRICT ACCORDANCE WITH APPLICABLE CODES
6. ALL WIRING, CABLES AND FEEDERS INCLUDING BOTH CONNECTED TO DEVICES AND EQUIPMENT TO BE DEMOLISHED AND EXISTING THAT WERE ABANDONED IN PLACE SHALL BE REMOVED BACK TO THEIR SOURCES. UNLESS NOTED OTHERWISE, CONDUITS AND/OR WIRING SHALL, WHERE NECESSARY, BE RECIRCUITED AROUND THE REMOVED PART, KEEPING OCCUPIED PARTS OF THE BUILDING SYSTEM IN FULL SERVICE. EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATION OF SERVICES, EQUIPMENT AND MATERIALS RELATING TO EACH HVAC, PLUMBING/FIRE PROTECTION AND ELECTRICAL TRADE, RESPECTIVELY
7. ALL EXISTING CONDUITS WHICH HAS BEEN ABANDONED OR IS UNUSED SHALL BE REMOVED
8. PROVIDE BLANK METAL COVER PLATES FOR ALL JUNCTION/DEVICE BOXES NO LONGER IN USE THAT ARE EMBEDDED IN FLOOR SLAB OR MASONRY WALLS. PROVIDE PLUGS FOR ALL PANELS WHERE CONDUIT HAS BEEN REMOVED, COVER PLATES SHALL BE PAINTED TO MATCH EXISTING CONDITIONS
9. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND THE G.C. FOR EXISTING PARTITIONS TO BE REMOVED. DISCONNECT EXISTING BRANCH CIRCUITS SERVING DEVICES IN PARTITIONS TO BE REMOVED. MAINTAIN CONTINUITY OF CIRCUITS SERVING EXISTING DEVICES IN OTHER AREAS TO REMAIN
10. ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED
11. ELECTRICAL CONTRACTOR SHALL PROVIDE UPDATED TYPE WRITTEN PANEL DIRECTORIES FOR ALL PANELS AFFECTED BY THE DEMOLITION AND/OR NEW WORK. CIRCUIT BREAKERS NOT USED FOR NEW WORK SHALL BE LABELED AS SPARE
12. FOR EXISTING DEVICES/CIRCUITRY THAT ARE INDICATED TO BE REMOVED BACK TO POINT OF ORIGIN – THESE ITEMS ARE TO BE REMOVED BACK TO POINT OF ORIGIN UNLESS THERE WILL BE EXISTING DEVICES ON THE SAME CIRCUIT THAT ARE LOCATED OUTSIDE AREA OF WORK THAT ARE TO REMAIN. IN THAT CASE, REMOVE THE EXISTING DEVICES/CIRCUITRY IN AREA OF WORK BACK TO THESE EXISTING DEVICES TO REMAIN. ALL DEVICES/CIRCUITRY IN SURROUNDING AREAS THAT ARE TO REMAIN ARE TO BE KEPT ENERGIZED. FOR REMOVAL OF CONDUIT AND WIRING OUTSIDE OF AREA OF WORK COORDINATE AND SCHEDULE WITH OWNER PRIOR TO PERFORMING WORK
13. NO WORKS SHALL BE LEFT INCOMPLETE, NOR ANY HAZARDOUS SITUATION CREATED, WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S PRIOR WRITTEN PERMISSION

DEMOLITION NOTES
SCALE: N.T.S.

ABACUS
ARCHITECTURE PSC

CONSULTANT

elementz ENGINEERING PSC

REVISION I
BID DRAWINGS

PROJECT NAME

NEW IMPROVEMENTS ACAA BUILDING
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

No.	DESCRIPTION	DATE

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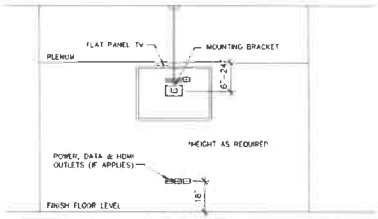
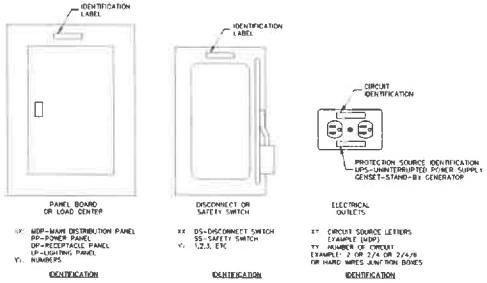
DRAWING TITLE

10TH FLOOR ELECTRICAL DEMOLITION FLOOR PLAN

SCALE 1/8"=1'-0"
DRAWING No. ED-01



TYPICAL POWER & VIDEO OUTLET	DETAIL A
SCALE: 1/4"=1'-0"	ID: E018



ELECTRICAL RECEPTACLE CIRCUIT IDENTIFICATION	DETAIL E
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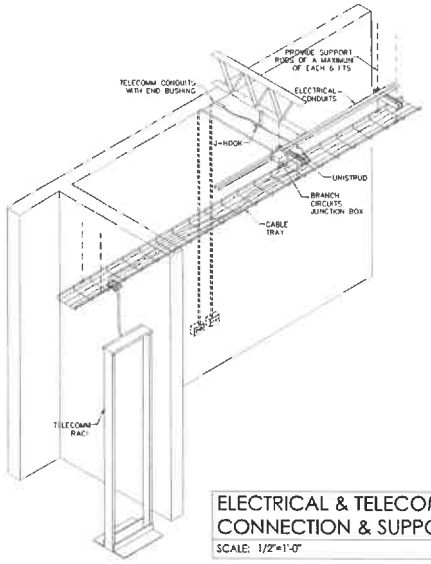

ELECTRICAL & TELECOMM CONNECTION & SUPPORT	DETAIL I
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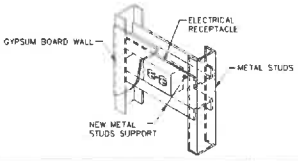

TYPICAL ELECTRICAL RECEPTACLES SUPPORT	DETAIL B
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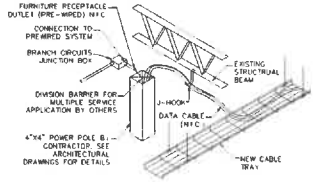
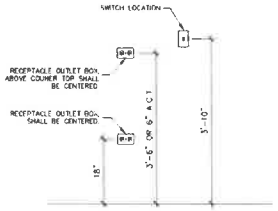


FURNITURE MULTI-SERVICE TRANSITION	DETAIL F
SCALE: 1/2"=1'-0"	ID: E075



ELECTRICAL RECEPTACLES INSTALLATION DETAIL	DETAIL C
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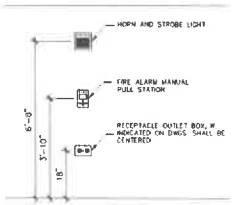

FIRES STATION & HORN INSTALLATION DETAIL	DETAIL G
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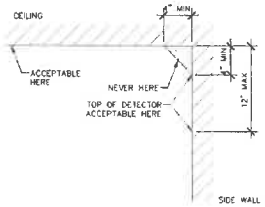
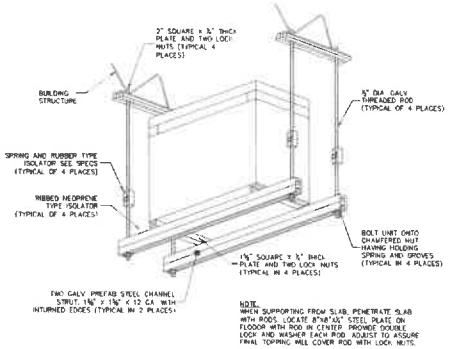
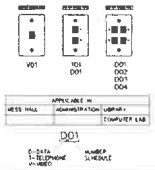


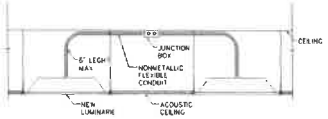
TYPICAL DETAIL: FIRE ALARM LOCATION	DETAIL J
SCALE: 1 1/2"=1'-0"	ID: F001



TYPICAL DETAIL: TRANSFORMER SUPPORT	DETAIL K
SCALE: 3/4"=1'-0"	ID: E060



TYPICAL TELECOMM OUTLET	DETAIL D
SCALE: 3/16"=1'-0"	ID: T004



FLUORESCENT LIGHT TYPICAL CONNECTION	DETAIL H
SCALE: 3/4"=1'-0"	ID: E035

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SAN JUAN, PUERTO RICO

REVISIONS

No	DESCRIPTION	DATE

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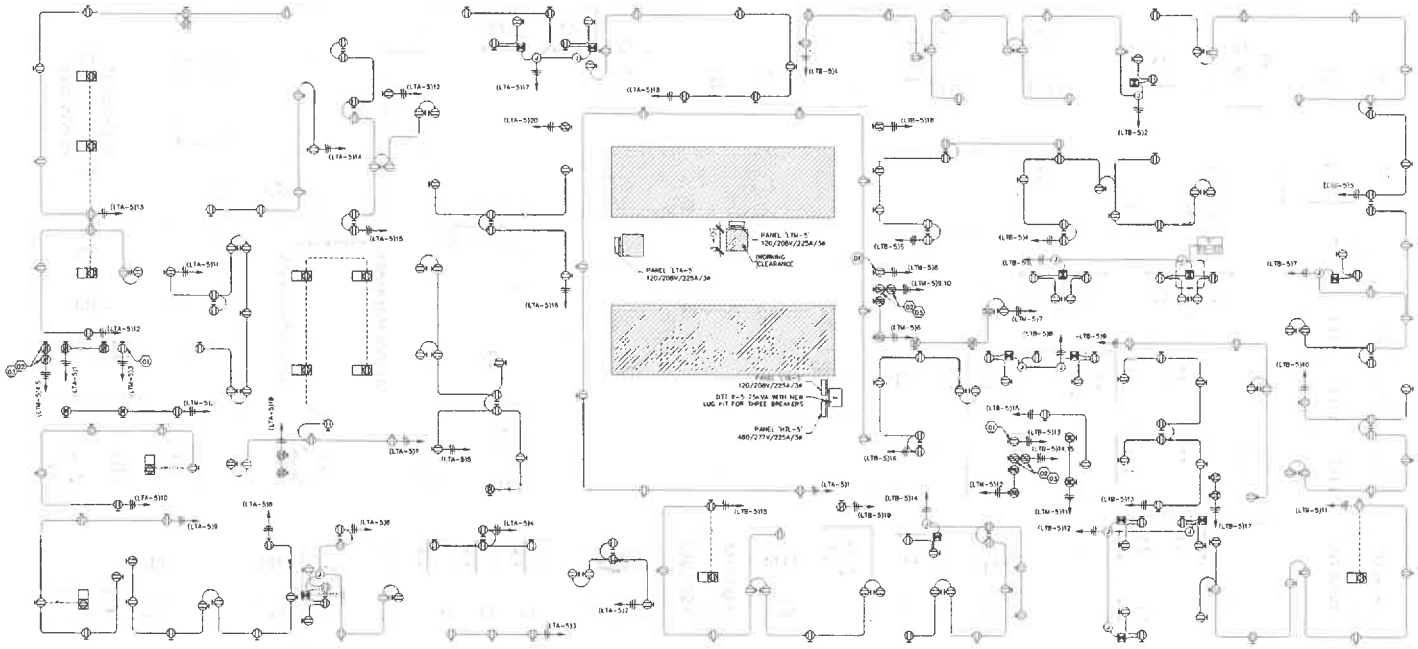
DRAWING TITLE

ELECTRICAL DETAILS

SCALE: AS NOTED	DRAWING No. E0-02
PROJECT No.	
DATE	SHEET No.



EXISTING ELECTRICAL CONDITIONS, TO REMAIN
CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL INFRASTRUCTURE CONDITIONS BEFORE INSTALLATION

ELECTRICAL FLOOR PLAN

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

KITCHEN EQUIPMENT ELECTRICAL SCHEDULE

ID	DESCRIPTION	RECEPTACLE HEIGHT	EXPOSED OR CONCEALED	VOLTS (V)
01	REFRIGERATOR	18"	CONCEALED	120
02	MICROWAVE	58"	CONCEALED	120
03	MICROWAVE	74"	CONCEALED	120

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DRAWING TITLE

10TH FLOOR ELECTRICAL FLOOR PLAN

SCALE 1/8"=1'-0"

DRAWING No. E1-01

DESIGNATION	BRAND:	MAIN	VOLTAGE (V)	CIRCUIT NUM	CIRCUIT POLES	CIRCUIT AMPS	LOAD
'HTL-5'	SQUARE D	BREAKER	277/480V	1-9	1	20	IGHTING
LOCATION	TYPE	CAPACITY (A):	SYSTEM	10-12	1	20	MERGENCY LIGHTS
ELECTRICAL ROOM	NEMA 1	225	4W	13/15/17	3	100	RY TYPE 'X-5' 75KVA
MODEL:		INT. CAPACITY (K.A.I.C.):		14/16/1	3	20	AHU-01 SAFETY SWITCH
ANEL NF418L1 OX MH38 OVER: NC38FHR REAKER: HDL3610		18		9/21/23	3	20	AHU-02 SAFETY SWITCH
				20,22 24-42			SPACE
DESIGNATION	BRAND:	MAIN	VOLTAGE (V)	NUM	POLES	AMPS	LOAD
'LTA-5'	SQUARE D	BREAKER	120/208V	1-18	1	20	RECEPTACLES
LOCATION	TYPE	CAPACITY (A):	SYSTEM	19	1	20	TELECOMM RACK #1
ELECTRICAL ROOM	NEMA 1	225	4W	20	1	20	MOTE FIRE ALARM PANEL
MODEL		INT. CAPACITY (K.A.I.C.)		21-42		20	SPARE
ANEL NF430L1 OX MH44 OVER: NC44FHR REAKER: HDL361		25					
DESIGNATION	BRAND:	MAIN	VOLTAGE (V)	NUM	POLES	AMPS	LOAD
'LTB-5'	SQUARE D	BREAKER	120/208V	1-16	1	20	CEPTACLES
LOCATION	TYPE	CAPACITY (A):	SYSTEM	17	1	20	ELECOMM RACK #2
ELECTRICAL ROOM	NEMA 1	225	4W	18-19	1	20	EMOTE FIRE ALARM PANEL
MODEL:		INT. CAPACITY (K.A.I.C.):					
ANEL NF430L1 OX MH44 OVER: NC44FHR EAKER: HDL361		25					
DESIGNATION	BRAND:	MAIN	VOLTAGE (V)	NUM	POLES	AMPS	LOAD
'LTM-5'	SQUARE D	BREAKER	120/208V	1-2	1	20	ITCHEN COUNTER RECEPTACLES
LOCATION	TYPE:	CAPACITY (A):	SYSTEM	3	1	20	EFRIGERATOR
ELECTRICAL ROOM	NEMA 1	225	4W	4-5	1	20	MICROWAVE RECEPTACLE
MODEL:		INT. CAPACITY (K.A.I.C.):		6-7	1	20	ITCHEN COUNTER RECEPTACLES
PANEL NF430L1 BOX MH44 COVER: NC44FHR BREAKER: HDL361		25		8	1	20	EFRIGERATOR
				9-10	1	20	ROWAVE RECEPTACLE
				11-12	1	20	ITCHEN COUNTER RECEPTACLES
				13	1	20	FRIGERATOR
				14-15	1	20	MICROWAVE RECEPTACLE
				16	1	20	AND DRYER WOMEN BATHROOM
				17	1	20	AND DRYER MEN BATHROOM
				18-42	1	20	PARE

* COORDINATE OVERLOAD PROTECTIVE DEVICE & SAFETY SWITCH WITH EQUIPMENT SUPPLIER
** ARC-FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTION CIRCUIT BREAKER AS PER NEC 210.12(A),(B),(C) & (D)
*** NOTE - EXISTING ELECTRICAL PANEL & BREAKERS TO BE RE-USED, CONTRACTOR SHALL VERIFY THAT EQUIPMENTS IS WORKING PROPERLY BEFORE BIDDING

ELECTRICAL PANEL SCHEDULE

SCALE: N.T.S.

ID	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	BALLAST TYPE	LAMPS OR TUBES NUM.	LAMPS OR TUBES WATTS	LAMPS OR TUBES TYPE	TOTAL WATTS
L1	2'x2' LED FIXTURE	LITHONIA LIGHTING	3400LM 80 CRI 40K MIN10 ZT 277V	277	DR	1	30	LED	30
L2	RECESSED LIGHTING FIXTURE	LITHONIA LIGHTING	LDN6 35/10 MVOLT GZ10 HSG	277	DR	1	11	LED	11
L3	1'x4' LED FIXTURE	LITHONIA LIGHTING	SBL4 LP835 (CI-754RKP)	277	DR	1	32	LED	32
ES	EXIT SIGN	LITHONIA LIGHTING	ECBG LED M6	277	DR	1	3	LED	3

FIXTURE NOTES:
-EB DENOTES 'ELECTRONIC BALLAST'
-DB DENOTES 'DIMMABLE BALLAST'
-IN DENOTES 'INCANDESCENT LAMP'

*FOR MORE DETAILS REEFER TO ARCHITECTURAL DRAWINGS ON SHEET A-2.2

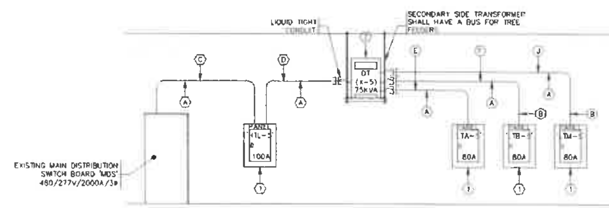
LIGHTING SCHEDULE

SCALE: N.T.S.

CONDUITS & CONDUCTORS INFORMATION				
BREAKER	CURRENT CARRYING CONDUCTOR SIZE	GROUND CONDUCTION	CONDUITS SIZE* 1 POLE	CONDUITS SIZE* 3 POLES
15A	#12	#12	¾"ø	¾"ø
20A	#12	#12	¾"ø	¾"ø
25A	#10	#10	¾"ø	¾"ø
30A	#10	#10	¾"ø	¾"ø
35A	#8	#10	¾"ø	¾"ø
40A	#8	#10	¾"ø	¾"ø
45A	#6	#10	1"ø	1"ø
50A	#6	#10	1"ø	1"ø
60A	#4	#10	1"ø	1¼"ø
70A	#4	#8	1"ø	1¼"ø
80A	#3	#8	1"ø	1¼"ø
90A	#2	#8	1¼"ø	1½"ø
100A	#2	#8	1¼"ø	1½"ø
125A	#1	#6	1¼"ø	1½"ø
150A	#1/0	#6	1¼"ø	2"ø
175A	#2/0	#6	1½"ø	2"ø
200A	#3/0	#3	1½"ø	2"ø
*ASSUME THHN/THWN INSULATION AND EMT CONDUIT, OTHER TYPES OF INSULATION AND CONDUITS MATERIALS ARE DESCRIBE BELOW				

CONDUITS & CONDUCTORS SCHEDULE

SCALE: N.T.S.



① - ELECTRICAL PANEL 225A, SEE SCHEDULE FOR DETAILS
② - EXISTING 75KVA 480V PRI /120/208V SEC DRY TYPE TO REMAIN
Ⓐ - EXISTING FEEDER TO REMAIN. ELECTRICAL CONTRACTOR SHALL VERIFY THAT CABLE CONDITION AND INSULATION ARE IN OPERATIONAL CONDITIONS BEFORE RE-ENERGIZE
Ⓑ - IF NO EXISTING CONDUIT, ELECTRICAL CONTRACTOR SHALL VERIFY THAT ITS PATHWAY TO BE CONSTRUCTED BEFORE RE-ENERGIZE

Ⓒ - (4)#2/0-CU-IN 2"ø EMT CONDUIT.
Ⓓ - (4)#2/0-CU-THW IN 1.25"ø EMT CONDUIT
Ⓔ - (4)#4/0-CU-THW IN 2.5"ø EMT CONDUIT
Ⓕ - (4)#4-CU-THW IN 1.25"ø EMT CONDUIT
Ⓙ - (4)#4-CU-THW IN 1.25"ø EMT CONDUIT

ELECTRICAL SINGLE LINE DIAGRAM

SCALE: N.T.S.

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BID DRAWINGS
PROJECT NAME

NEW IMPROVEMENTS ACAA BUILDING
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS
DESCRIPTION | DATE

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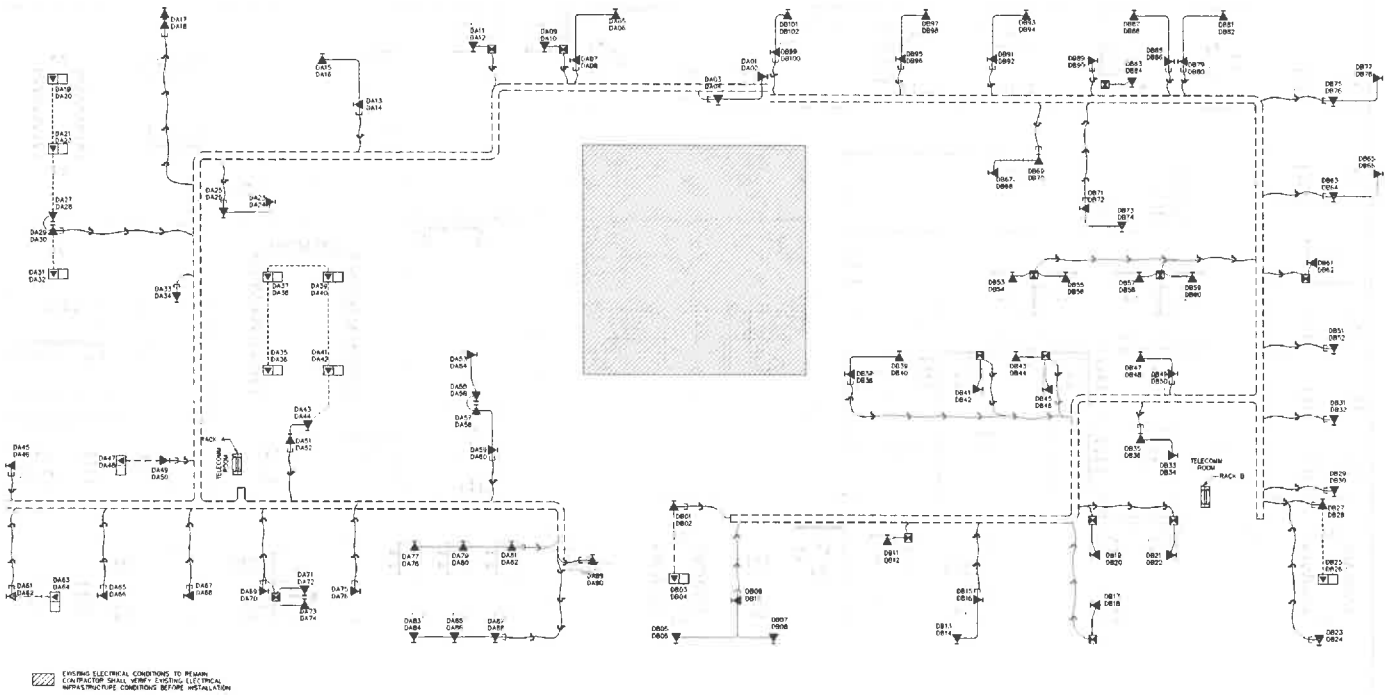
DRAWING TITLE
ELECTRICAL SCHEDULES

SCALE: 1/8"=1'-0"
DRAWING No.: E2-01
PROJECT No.
SHEET No.
DATE



TELECOMM FLOOR PLAN

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

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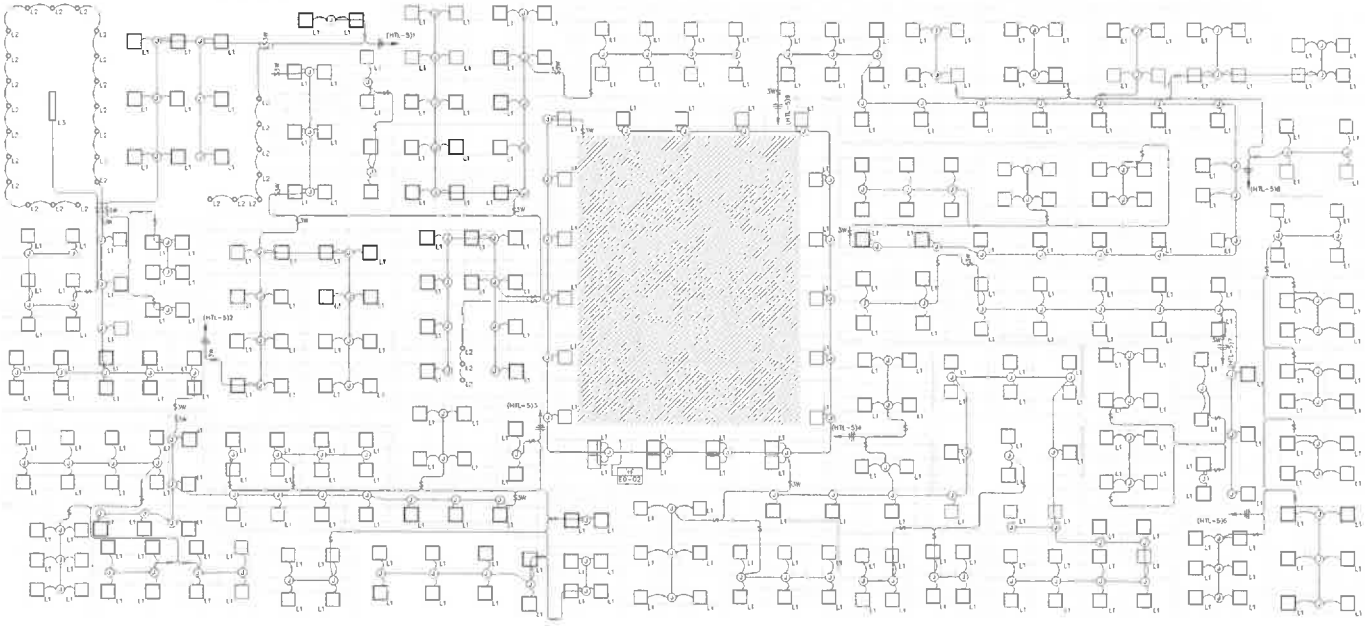
PARTNER IN CHARGE
DRAWN CHECKED
JOB CAPTAIN
DRAWN BY
CHECK BY

DRAWING TITLE

10TH FLOOR TELECOMM FLOOR PLAN

SCALE 1/8"=1'-0"
DRAWING No T1-01
PROJECT No
DATE
SHEET No



EXISTING ELECTRICAL CONDITIONS TO REMAIN
CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL INFRASTRUCTURE CONDITIONS BEFORE INSTALLATION

LIGHTING FLOOR PLAN

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

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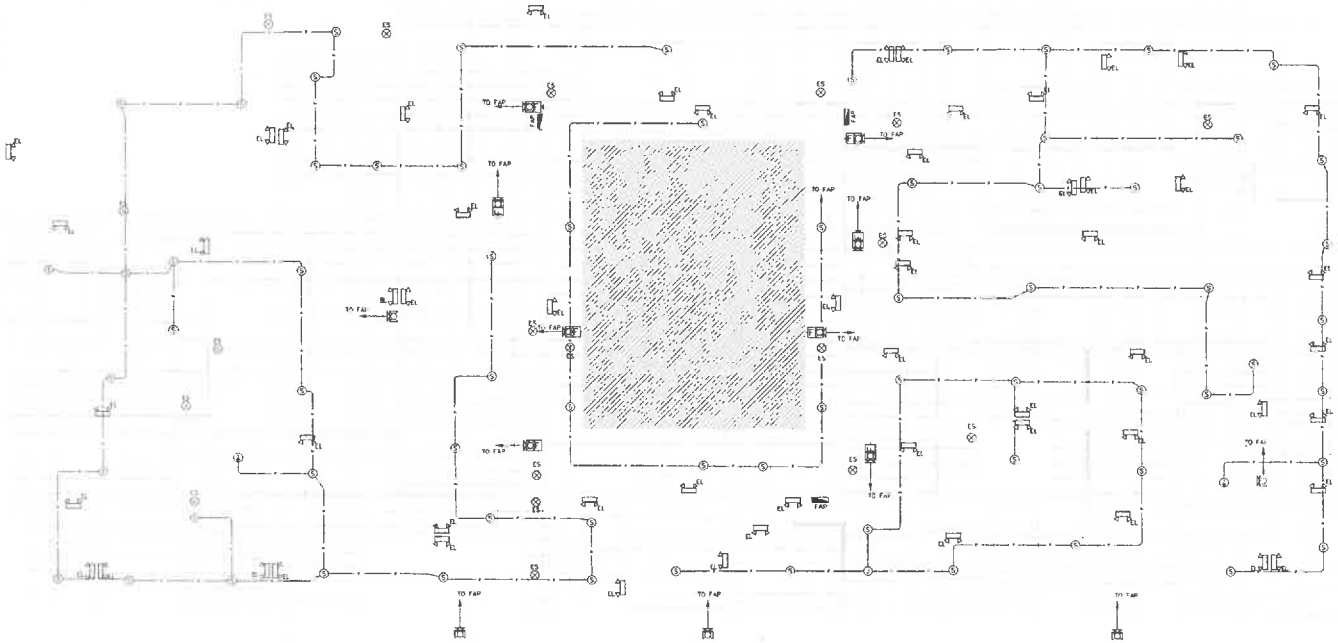
PROJECT MANAGER
DESIGN CAPTAIN
JOB CAPTAIN
CHECKED BY
DRAWN BY

DRAWING TITLE

10TH FLOOR LIGHTING FLOOR PLAN

SCALE 1/8"=1'-0"
PROJECT No
DATE
DRAWING No L1-01
SHEET No



EXISTING ELECTRICAL CONDITIONS TO REMAIN
CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL INFRASTRUCTURE CONDITIONS BEFORE INSTALLATION

IMPORTANT NOTE
CONNECT EXIT SIGN & EMERGENCY LIGHTS ON CIRCUITS EHTL-5310-12

FIRE ALARM FLOOR PLAN

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

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PARTNER IN CHARGE
DESIGN CAPTAIN
JOB CAPTAIN
CHECKED BY
DRAWN BY

DRAWING TITLE

10TH FLOOR FIRE ALARM FLOOR PLAN

SCALE 1/8"=1'-0"

DRAWING No. F1-01

PROJECT No.

DATE

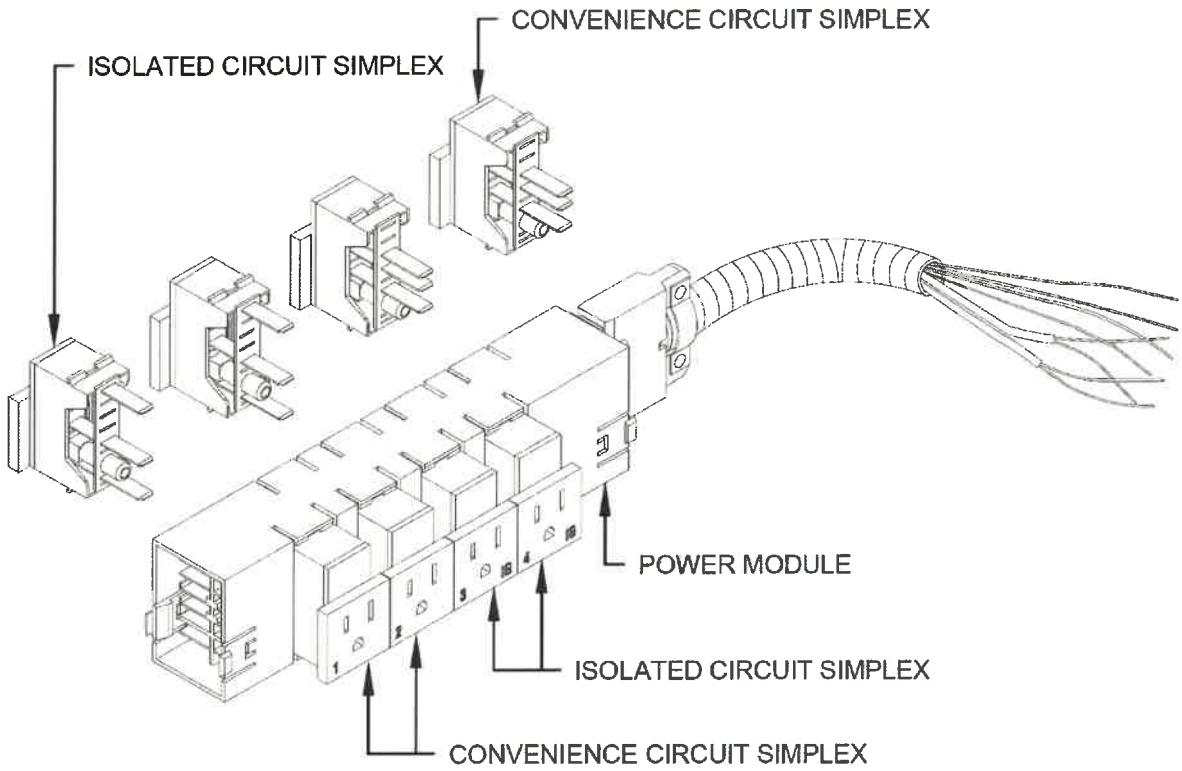
SHEET No.

ELECTRICAL SPECIFICATIONS

COSMO & SWITCH

All electrical components are based on NEC standards and are therefore UL listed–and CSA-certified. The electrical system is an 8-wire, 4-circuit system. Each circuit is rated for 20amps/120v.

POWER BLOCK



Isolated receptacles are made evident by their orange color. Electrical harnesses have a metal flex casing to prevent interference with voice/data cabling, and shield all electrical wires. Electrical harnesses easily snap together to make a connection. Power modules can be installed or relocated without dismantling the panel.

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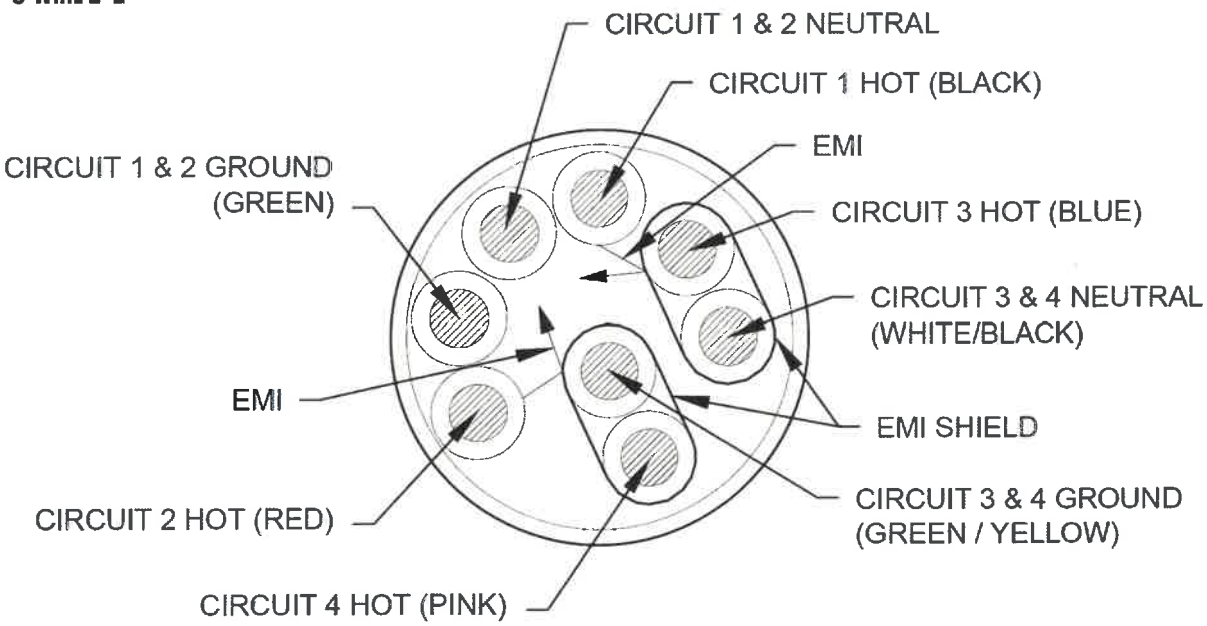
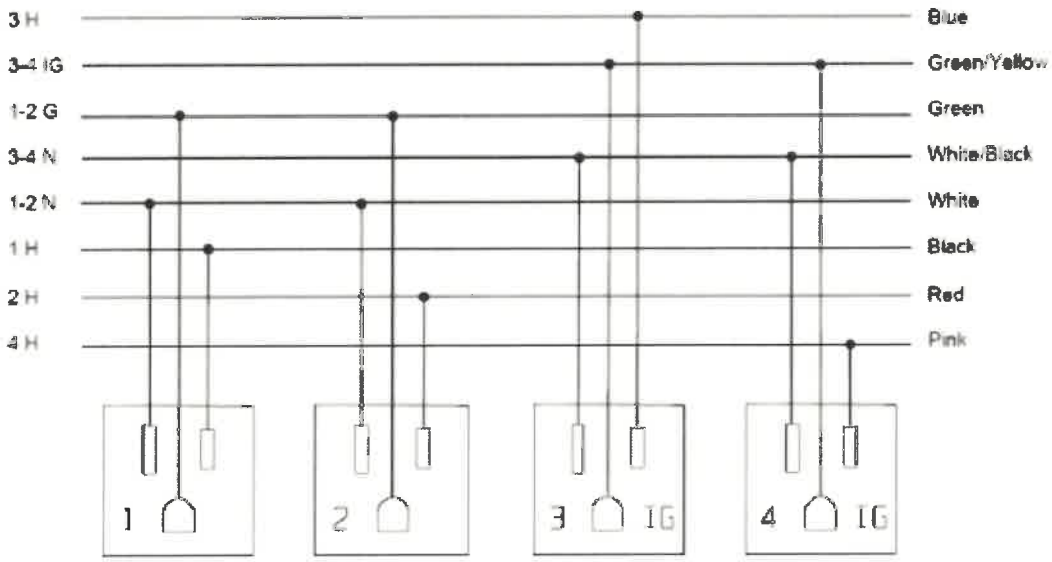
ELECTRICAL SPECIFICATIONS

COSMO & SWITCH

CABLE CROSS SECTION

8-WIRE 2+2





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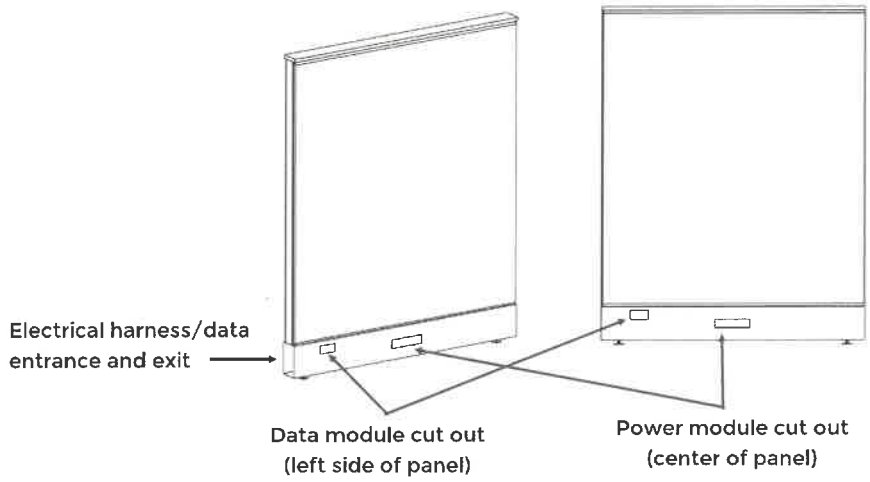
ELECTRICAL SPECIFICATIONS

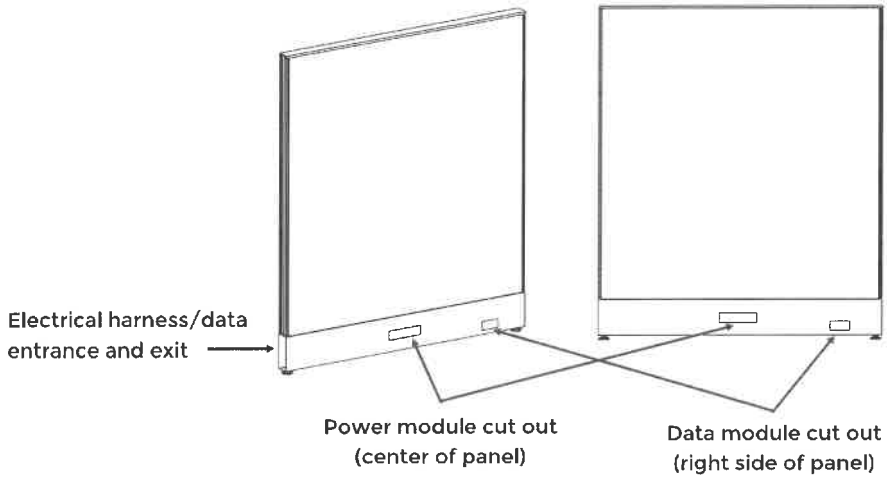
COSMO & SWITCH

ELECTRICAL & DATA RACEWAY LOCATION

COSMO



SWITCH



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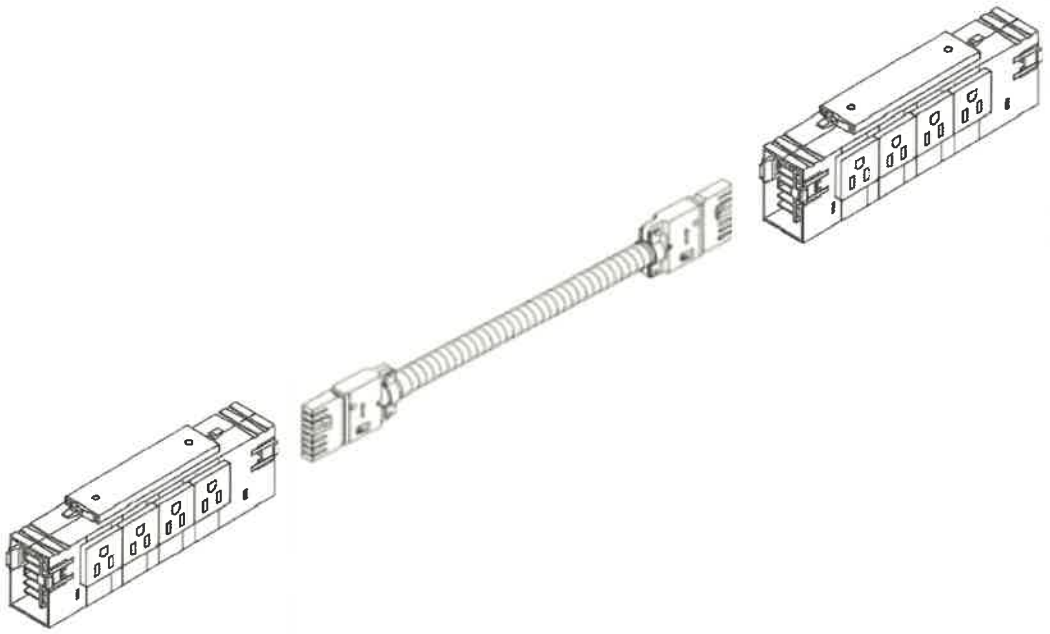
ELECTRICAL SPECIFICATIONS

COSMO & SWITCH

HARNESS/STARTER CABLE CONNECTIONS

Power modules and harnesses are a male-female connection.



Open-wire starter harnesses come in 72" and 168" lengths and are hardwired to the electrical system of the building. Electrical harnesses are available in singular lengths ranging from 19" to 145" at 3" increments, or as a combination of two harnesses up to 181" in length.

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ELECTRICAL SPECIFICATIONS

COSMO & SWITCH

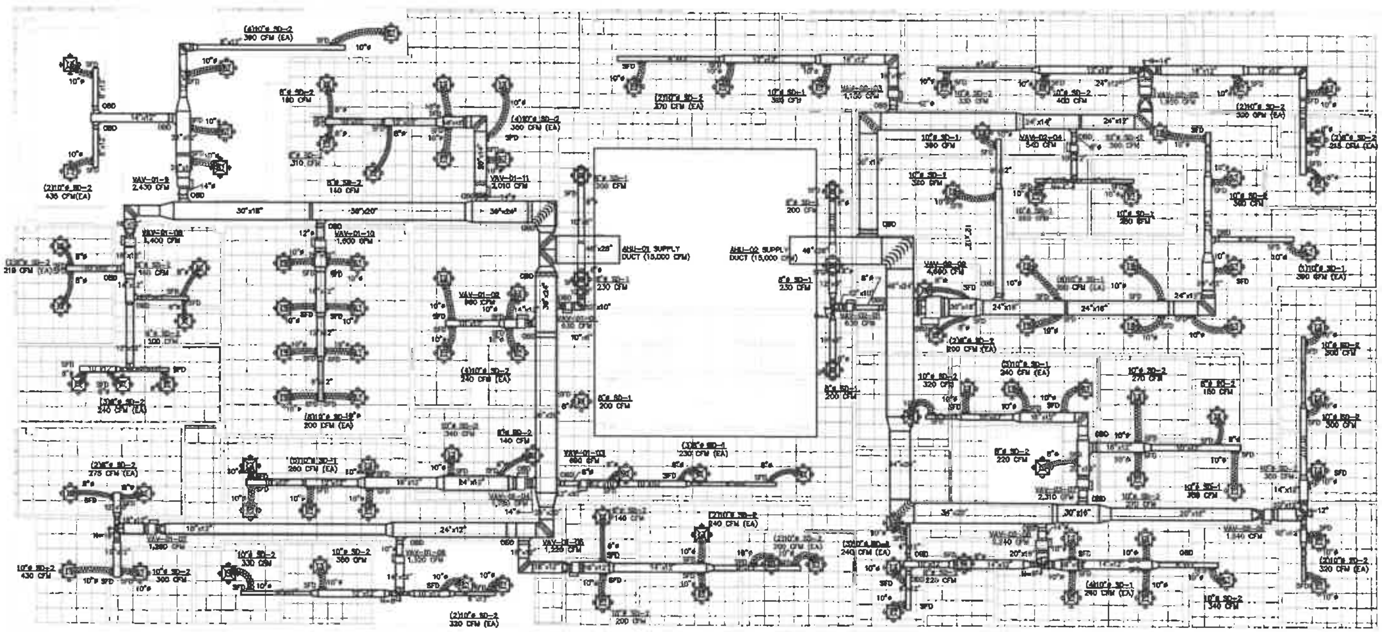
WARNING

Risk of fire or electrical shock. As with all non-directional systems, do not electrically connect panel to more than one supply source. Always determine that the panel is electrically connected to one and only one source of supply. Before using any equipment, check the entire system for polarity, continuity and grounding integrity.

IMPORTANT

To minimize the effects of EMI (Electro-Magnetic Interference), the computer circuits 3 and 4 have been shielded from circuits 1 and 2 through out the entire system. It is critical to maintain this shielding when bringing the power from the electrical distribution panel to the partition system. A separate conduit run for circuit 3 (blue), circuit 4 (pink), circuit 3 and 4 neutral (blk/wht) and circuit 3 and 4 isolated ground (green/yellow) is necessary to maintain this separation.

Always consult local electrical codes to verify compliance. Electrical components are for indoor use only.



10TH LEVEL REFLECTED CEILING PLAN–VAC LAYOUT

SCALE: ⅛"=1'-0"

NOTES:

1. COORDINATE LOCATION OF TEMPERATURE CONTROLLERS AND TEMPERATURE SENSORS AT FIELD WITH OWNER.
2. EXPOSED EQUIPMENT SHALL BE ANCHORED TO WITHSTAND HURRICANE FORCE WINDS.
3. PROVIDE CORROSION PROTECTION TO ALL WEATHER EXPOSED MECH. EQUIPMENT BY MEANS OF FIELD APPLIED PRODUCT.
4. ALL ROOF AND WALL OPENING SHALL BE COORDINATED WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. CEILING EXHAUST FAN SIMILAR TO –, 80 CFM, .07 AMPS, 120/1/60. INTERLOCKED WITH LIGHTING FIXTURE SWITCH.
6. ALL HANGING FAN COIL UNITS SHALL HAVE A ACCESS DOOR FOR MAINTENANCE PURPOSES. COORDINATE WITH ARCHITECTURAL DWGS.
7. ACCESS DOOR SHALL BE EQUAL OR SIMILAR TO MIFAB MODEL CAD-FR. 24"x24"; RECESSED 1⅝".
8. FAN COIL UNITS CONDENSATE DRAIN PIPES SHALL BE 1"ø PVC INSULATED WITH ⅜" THICK CLOSED CELL ELASTOMATIC.
9. WALL EXHAUST FAN SIMILAR TO PANASONIC MODEL FV-05-11VK1, 80 CFM, .07 AMPS, 120/1/60. INTERLOCKED WITH LIGHTING FIXTURE SWITCH.

ABBREVIATIONS:

VAC	VENTILATION & AIR CONDITIONING
CFM	CUBIC FEET PER MINUTE
EF	EXHAUST FAN
SF	SUPPLY FAN
CD	CEILING DIFFUSER
RR	RETURN REGISTER. SEE SCHEDULE AT DWG VAC-2.0 (RR-1)
FCU	FAN COIL UNIT
CU	CONDENSING UNIT
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
EA	EXHAUST AIR
OAL	OUTSIDE AIR LOUVER
SD	SUPPLY DIFFUSER SEE SCHEDULE AT DWG VAC-2.0 (SD-1)
OBD	OPPOSITE BLADE DAMPER
SFD	SPINNING FITTING DAMPER
PCU	POLLUTION CONTROL UNIT
AHU	AIR HANDLING UNIT
(EA.)	EACH
(T)	A/C THERMOSTAT AND CONTROLLER RECOMMENDED LOCATION, COORD. WITH ARCHITECT

SECUENCE OF OPERATION

1. COORDINATE LOCATION OF TEMPERATURE CONTROLLERS AND TEMPERATURE SENSORS AT FIELD WITH OWNER.
2. EXPOSED EQUIPMENT SHALL BE ANCHORED TO WITHSTAND HURRICANE FORCE WINDS.
3. PROVIDE CORROSION PROTECTION TO ALL WEATHER EXPOSED MECH. EQUIPMENT BY MEANS OF FIELD APPLIED PRODUCT.
4. ALL ROOF AND WALL OPENING SHALL BE COORDINATED WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. CEILING EXHAUST FAN SIMILAR TO –, 80 CFM, .07 AMPS, 120/1/60. INTERLOCKED WITH LIGHTING FIXTURE SWITCH.

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ARCHITECTURE PSC

CONSULTANT
R.A.P. CONSULTING ENGINEER, P.S.C.

PROJECT NAME
NEW IMPROVEMENTS ACAA BUILDING
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

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DRAWING TITLE
10TH LEVEL
REFLECTED CEILING PLAN
VAC LAYOUT AND NOTES

SCALE 1/8"=1'-0"
VAC-1.0

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CONSULTANT
R.A.P. CONSULTING ENGINEER, P.S.C.
PROJECT NAME

NEW IMPROVEMENTS ACAA BUILDING
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

A/C GENERAL NOTES:

1. BIDDERS SHALL VISIT THE BUILDING AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THEY ACTUALLY EXIST AND VERIFY DIMENSIONS, LOCATIONS AND DETAILS REQUIRED TO COMPLETE THE WORK. FAILURE TO VISIT THE PROJECT AREA WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER OF FURNISHING ALL MATERIAL AND PERFORMING ALL WORK REQUIRED FOR THE COMPLETION OF THE CONTRACT. VISIT TO THE PROJECT AREA SHALL BE ARRANGED THROUGH THE BUILDING MANAGER.
2. CONTRACTOR SHALL PROVIDE SUITABLE VIBRATION ISOLATION FOR THE SYSTEM AS RECOMMENDED BY MANUFACTURER OF EQUIPMENT SPECIFIED OR PROVIDED.
3. CONTRACTOR SHALL FURNISH AND INSTALL PIPING VALVES, SENSORS, CONTROL SYSTEMS AND ANY OTHER ITEM REQUIRED FOR THE FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
4. IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND FOR FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
5. CONTRACTOR SHALL PAINT ALL PIPING, PIPE INSULATION, FITTINGS, VALVES AND ALL EQUIPMENT TO BE INSTALLED.
6. THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE DUCT AND PIPING ARRANGEMENTS AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
7. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED WITH THE APPROVAL OF THE OWNER IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
8. CONTRACTOR SHALL LOCATE IN FULLY ACCESSIBLE POSITIONS ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED. CONTRACTOR IS RESPONSIBLE OF COMPLY WITH EACH EQUIPMENT MANUFACTURER RECOMMENDED CLEARANCE.
9. IN CASE OF DISCREPANCY BETWEEN THE EQUIPMENT SPECIFIED AND THE EQUIPMENT SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL ARRANGE FOR THE PROPER INSTALLATION OF THE EQUIPMENT.
10. CONTRACTOR SHALL FURNISH AND INSTALL AIR CONDITIONING EQUIPMENT, DUCTS, INSULATION, PIPING VALVES, SENSORS, CONTROL SYSTEMS AND ANY OTHER ITEM REQUIRED FOR THE PROPER FUNCTIONING AND OPERATION OF THE SYSTEM.
11. MECHANICAL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
12. DUCTWORK:
   - A– DUCT MATERIAL – SHALL BE GALVANIZED SHEET METAL, AND MANUFACTURED AND INSTALLED IN ACCORDANCE WITH LATEST EDITION OF THE DUCT CONSTRUCTION STANDARDS OF SMACNA FOR THE APPLICABLE PRESSURE CLASS.
   - B– DUCT WORKMANSHIP – ALL DUCTWORK SHALL BE CONSTRUCTED AND ERECTED IN A WORKMANLIKE MANNER. DUCTS SHALL BE STRAIGHT AND SMOOTH ON THE INSIDE WITH NEATLY FINISHED JOINTS, AIRTIGHT, AND SHALL BE FREE FROM VIBRATION UNDER ALL CONDITIONS OF OPERATION. THE INTERNAL ENDS OF SLIP JOINTS SHALL BE MADE IN THE DIRECTION OF AIR FLOW. CHANGES IN DIMENSIONS AND SHAPE OF DUCTS SHALL BE GRADUAL. ALL DUCT SIZES SHALL FALL WITHIN THE LIMITING DIMENSIONS INDICATED ON THE DRAWINGS UNLESS OTHERWISE APPROVED. CURVED ELBOWS, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, SHALL HAVE A CENTER LINE RADIUS EQUAL TO 1 1/2 TIMES THE WIDTH OF THE DUCT. AIR TURNS SHALL BE INSTALLED IN ALL ABRUPT ELBOWS AND SHALL CONSIST OF CURVED METAL BLADES OR VANES, ARRANGED TO PERMIT THE AIR TO MAKE THE TURNS WITHOUT APPRECIABLE TURBULENCE. THEY SHALL BE THE MANUFACTURER'S STANDARD PRODUCT AND SHALL BE QUIET WHEN THE SYSTEM IS IN OPERATION. CONFIGURATION OF DUCTS SHALL BE AS INDICATED ON DRAWINGS. DUCT HANGER SHALL BE AS INDICATED ON DRAWINGS.
13. ALL DUCT WORK AND PIPING SHALL BE PROVIDED WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH IBC & N.F.P.A. STANDARDS.
14. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE CONCRETE SLABS PENETRATION WORKS WITH OWNER, STRUCTURAL ENGINEER AND ARCHITECTURAL DRAWINGS.
15. EXPOSED AIR DUCT INSULATION SHALL BE 2" THICK JOHNS–MANVILLE NO. 817 (6 lbs/ft³) RIGID FIBERGLASS DUCT INSULATION WITH A FACTORY APPLIED FOIL–SCRIM–KRAFT (FSK) VAPOR BARRIER FACING. COVER ALL INSULATION WITH GLASS FABRIC MESH USING FOSTER SEALFAS MASTIC. INSULATION SHALL HAVE A "K" FACTOR=0.22 Btu–in/hr–ft² –°F @ 75°F.
16. CONCEALED AIR DUCT INSULATION SHALL BE 1 1/2" THICK JOHNS–MANVILLE R–SERIES MICROLITE FIBER GLASS BLANKET WITH A FACTORY APPLIED FOIL–SCRIM–KRAFT (FSK) VAPOR BARRIER FACING. INSULATION SHALL HAVE A "K" FACTOR= 0.37 Btu–in/hr–ft @ 75°F.
17. ALL SHEETMETAL DUCTWORK SEAMS & JOINTS MUST BE SEALED WITH HIGH PRESSURE DUCT SEALER AS MANUFACTURED BY MINNESOTA MINING & MANUFACTURING CO. MODEL EC–800 OR APPROVED EQUAL. AIR LEAKS MUST BE 5% OR LESS. TEST DUCTWORK BEFORE FINAL CONNECTION TO AHU'S & AIR DISTRIBUTION.
18. FOR EXACT LOCATION OF CEILING DIFFUSERS REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
19. THE CONTRACTOR MUST FURNISHED & INSTALL A U.L. APPROVED FIRE DAMPER WITH 10 GAUGE METAL SLEEVE AND DUCT ACCESS DOOR WHERE SHOWN ON DRAWINGS, AS REQUIRED BY LOCAL BUILDING CODES, OR AS REQUIRED BY N.F.P.A. FIRE DAMPERS SHALL BE CURTAIN TYPE AS MANUFACTURED BY RUSKIN MODEL IBD2 STYLE C OR APPROVED EQUAL.
20. ALL MATERIAL AND SPECIALTIES REQUIRED FOR THIS WORK SHALL BE NEW (UNLESS OTHERWISE INDICATED), OF FIRST–CLASS QUALITY AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL, AND SHALL BE SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. DURING STORAGE ON THE JOB SITE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP PIPE ENDS PLUGGED OR CAPPED TO PREVENT DIRT OR MOISTURE ENTERING THE PIPE.
21. PROVIDE SMOKE DETECTORS AS PER N.F.P.A. 90A.
22. REFRIGERANT PIPING MATERIAL: SHALL BE TYPE "K" COPPER TUBING, HARD DRAWN WITH WROUGHT COPPER SOLDER TYPE FITTINGS SUITABLE FOR CONNECTION WITH SILVER SOLDER AND SHALL BE COVERED WITH ALUMINUM JACKET.
23. COOLING COIL CONDENSATE DRIP PIPING MATERIAL: SHALL BE TYPE "M" COPPER OR SCH.40PVC.
24. GLOBE VALVE: SHALL BE CONSTRUCTED OF FORGED BRASS AND SHALL BE OF THE BACKSEATING TYPE SUITABLE FOR 500 PSI.
25. CHECK VALVES: SHALL BE CONSTRUCTED OF FORGED BRASS SUITABLE FOR 500 PSI.
26. SOLENOID VALVES: SHALL BE CONSTRUCTED OF FORGED BRASS SUITABLE FOR 400 PSI.
27. REFRIGERANT STRAINERS: SHALL BE CONSTRUCTED OF FORGED BRASS SUITABLE FOR 350 PSI. PROVIDE 100 MESH STRAINER.
28. MOISTURE INDICATOR: SHALL BE CONSTRUCTED OF FORGED BRASS WITH OPTICAL GLASS SUITABLE FOR 500 PSI.
29. FILTER DRAINS: SHALL BE CONSTRUCTED OF STEEL WITH STEEL COVER REPLACEABLE FILTER DRIER COVER.
30. ALL ELBOWS SHALL BE OF THE LONG RADIUS TYPE.
31. REFRIGERANT PIPING INSULATION MATERIAL: SHALL BE CLOSED CELL ELASROMETRIC 1/2" THICK ALL PIPE SIZES. K–0.25 @ 75°F.
32. CONTRACTOR SHALL PROVIDE INDIRECTLY CONNECTED CONDENSATE DRAIN TO A/C UNITS. COORDINATE WITH PLUMBING DRAWINGS.
33. ALL EXPOSED DUCTWORK SHALL BE PAINTED AS PER ARCHITECT'S COLOR CODING.
34. CONTRACTOR SHALL BE RESPONSIBLE OF SUBMIT DUCTWORK SHOP DWG. FOR APPROVAL. NO CHANGE ORDER WILL BE ALLOWED FOR DUCTS MODIFICATIONS RESULTING FROM NEW–COORDINATED SHOP DRAWINGS.
35. PROVIDE CONDENSATE DRAIN PUMP FOR FCU'S IF SLOPE IS NOT ATTAINED.
36. COORDINATE LOCATION OF TEMPERATURE CONTROLLERS AT FIELD WITH OWNER.
37. EQUIPMENT AT ROOF SHALL BE ANCHORED TO WITHSTAND HURRICANE FORCE WINDS
38. PROVIDE CORROSION PROTECTION TO ALL WEATHER EXPOSED MECH. EQUIPMENT BY MEANS OF FIELD APPLIED PRODUCT.
39. PROVIDE 1" THICK INTERNAL ACOUSTICAL LINING TO FIRST 10'–0" OF SUPPLY & RETURN DUCTWORK. SIMILAR TO SCHULLER PERMACOUSTICS.
40. PROPERTIES OF MATERIALS ASSUMED AT THE COOLING LOAD CALCULATIONS:
   - A. ROOF – R=30 H*FT2*F/BTU
   - B. ROOF SKY LIGHT – U=0.8 BTU/H*FT2*F / SHGC=0.3
   - C. WALLS – R=7.5 H*FT2*F/BTU
   - D. WINDOWS – SINGLE PANE CLEAR 1/8"
   - E. SALES AREA LPD – 1.56 W/FT2
   - F. OCCUPANCY = 200 PEOPLE

VARIABLE AIR VOLUME BOX SCHEDULE

DESIGNATION	AIRFLOW(CFM) MAX.	AIRFLOW(CFM) MIN.	PD @ MAX. (INCH WG)	MANUFACTURER	MODEL	UNIT SIZE	CONTROL	REMARKS
VAV-01-01	830	85	.25	TRANE	VCCF	6	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-02	860	100	.25	TRANE	VCCF	10	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-03	890	70	.25	TRANE	VCCF	6	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-04	1,780	180	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-05	1,220	125	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-06	1,320	100	.25	TRANE	VCCF	10	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-07	1,280	130	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-08	1,400	140	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-09	2,430	245	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-10	1,600	160	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-11	2,010	205	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-01	630	65	.25	TRANE	VCCF	6	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-02	4,290	430	.25	TRANE	VCCF	24x16	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-03	1,130	130	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-04	840	180	.25	TRANE	VCCF	6	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-05	1,900	290	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-06	1,540	290	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-07	2,310	270	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-08	2,240	135	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR

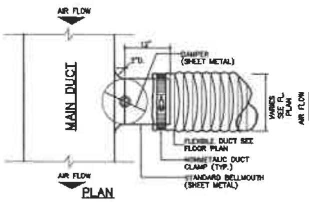
AIR TERMINALS SCHEDULE

DESIG.	TYPE	MODEL	MANUFACTURER	REMARK
SD-1	SUPPLY DIFFUSER	5000-4	METAL AIRE	ALUMINUM CONSTRUCTION
SD-2	THERMAL VAV DIFFUSER	TF	THERMAFUSER	ALUMINUM CONSTRUCTION
RR-1	RETURN REGISTER WITH DAMPER	RHD	METAL AIRE	ALUMINUM CONSTRUCTION

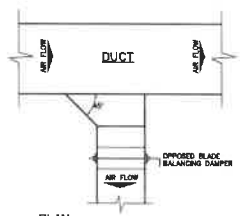
*PROVIDE TR TRANSITION WHEN REQUIRED

BALANCING:

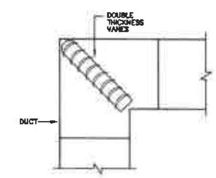
1. THE A/C CONTRACTOR SHALL PROVIDE AIR AND HYDRONIC SYSTEM BALANCING.
2. PERFORM AIR & HYDRONIC BALANCING BY A INDEPENDENT THIRD PARTY NEBB OR AABC CERTIFIED AIR BALANCE CONTRACTOR SHALL ACCURATELY BALANCE THE AIR SYSTEMS TO PROVIDE AIR QUALITIES INDICATED ON THE DRAWINGS AND IN THIS SPECIFICATION. OPERATE AUTOMATIC CONTROLS SYSTEM AND VERIFY SET POINTS DURING BALANCING. THE FINAL READING AND ADJUSTMENT SHALL BE PERFORMED WITH THE PRESENCE OF THE OWNER'S REPRESENTATIVE. SUBMIT TAB REPORT TO THE ENGINEER FOR APPROVAL.
3. PRESSURIZATION LEAKAGE AND INFILTRATION TEST SHALL BE PERFORMED PER SMACNA STANDARDS AND TECHNICAL SPECIFICATIONS.
4. THE AIR DISTRIBUTION SYSTEM AND DEVICES SHALL BE BALANCED FOR PROPER AIR FLOW. TEST DATA OF THE BALANCING OF THE SYSTEMS SHALL BE SUBMIT TO THE ARCHITECT FOR REVIEW. ALL AIR QUANTITIES SHALL BE SET TO WITHIN 10% OF THE LISTED QUANTITIES. DEFLECTION VANES SHALL BE SET TO ELIMINATE ANY EXCESSIVE AIR MOVEMENT IN THE AREA.
5. THE AIR SIDE BALANCING SHALL INCLUDE:
   1. RECORD MOTOR FULL LOAD AMPS AND ACTUAL OPERATING AMPERAGE.
   2. RECORD SUPPLY, RETURN AND OUTSIDE AIR TEMPERATURES.
   3. MAKE PITOT TUBE TRAVERSE OF MAIN SUPPLY DUCT AND OBTAIN DESIGN CFM AT FAN AND FAN RPM.
   4. RECORD SYSTEM STATIC PRESSURES, RETURN AND DISCHARGE.
   5. FIVE (5) COPIES OF BALANCING REPORTS CONTAINING THE DATA MENTIONED ABOVE AND SHALL BE GIVEN TO THE OWNER'S REPRESENTATIVE.
6. BALANCING WORK SHALL FULLY COMPLY WITH A.A.B.C. OR N.E.B.B.



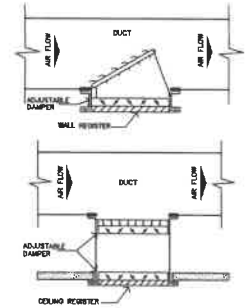
PLAN
BELLMOUTH & FLEXIBLE DUCT INSTALLATION DETAIL
SCALE: N.T.S.



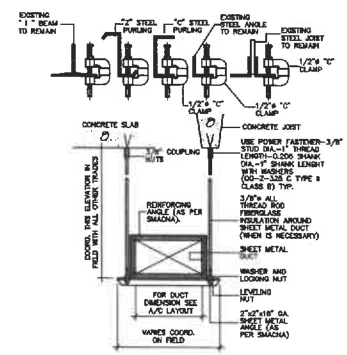
PLAN
TYPICAL TAKE-OFF DETAIL
SCALE: N.T.S.



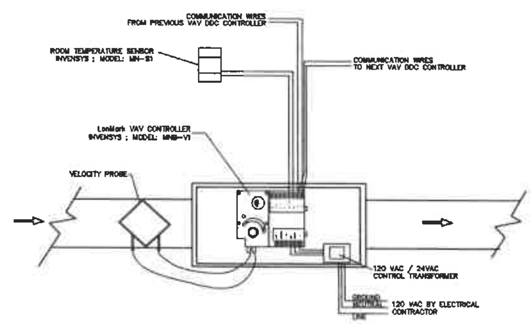
PLAN
SQUARED VANED ELBOW
SCALE: N.T.S.



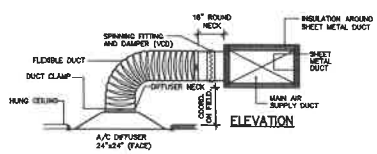
DETAIL APPLIES TO EACH WALL OR CEILING MOUNTED SUPPLY, RETURN OR EXHAUST REGISTER AND DIFFUSER.
SUPPLY DIFFUSER, EXHAUST OR RETURN REGISTER MOUNTING DETAIL
SCALE: N.T.S.



ELEVATION
SUPPLY,RETURN OR EXHAUST SHEET METALDUCT HANGER DETAIL
SCALE: N.T.S.



VAV DDC CONTROLLER CONTROL DIAGRAM
TYPICAL FOR ROOM TEMPERATURE CONTROL APPLICATION
SCALE: N.T.S.



CEILING DIFFUSER & FLEXIBLE DUCT INSTALLATION DETAIL
SCALE: N.T.S.

REVISIONS

NO.	DESCRIPTION	DATE

PO BOX 352192 SAN JUAN P.R. 00936
TEL. (787) 724-4331. FAX (787) 977-7980
WWW.ABACUSARQ.COM

PRELIMINARY COPY

DRAWING TITLE
VAC NOTES
SCHEDULES AND DETAILS

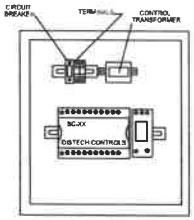
SCALE: N.T.S.
VAC–2.0

AHU'S SEQUENCE OF OPERATION

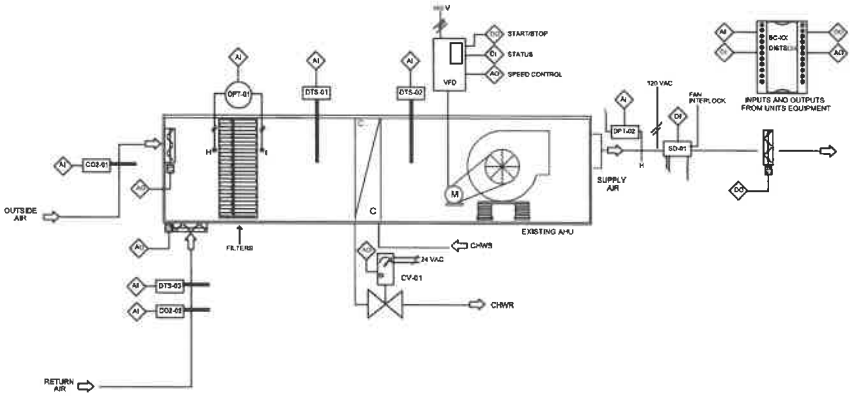
1. The BMS Should Start / Stop the Unit base on a Daily Schedule.
2. When BMS send a Start Signal the Fresh Air , Return Air and Supply Air Damper Actuator should Open and Send a Open Position Feedback in order to Start the Unit.
3. When BMS send a Stop Signal the Fresh Air , Return Air and Supply Air Damper Actuator should Closed and Send a Closed Position Feedback .
4. In case of Power Failure All Dampers Actuators will close (Spring Return).
5. Distech Control BMS will monitor Supply, Return, Mix Temperature Sensors, Carbon Dioxide Sensors for Outside / Return Air, Static Pressure Sensor, Smoke Detector, Filter / Fan Status and Motorized Damper Position
6. Variable Frequency Drive will Increase or Decrease Hz in order to reach desire static pressure setpoint. A Smoke Detector installed at the Supply Duct will shutdown the Unit in case of Activation.
7. A Supply Temperature Sensor will monitor the Unit to Assure 55 °F with the Cooling Coil Control Valve
8. Carbon Dioxide Sensor installed at the Return Duct will Monitor PPM and Compare it with Outside Carbon Dioxide PPM. If the CO2 Sensor from the Return is Higher than 1,000 PPM and 250 PPM from Outside CO2 a Control Damper at the Fresh Air will Modulate to Open an a Control Damper at the Return will Modulate to Close.
9. A Differential Pressure Transmitter will be installed to Monitor Filter Condition.

BILL OF MATERIAL

QTY	DESIGNATION	DESCRIPTION	MODEL	MANUFACTURER
2	DTS-01 & 02	DUCT TEMPERATURE SENSORS- 12 INCHES	BA/10K3-D12-WP	BAPI
1	DTS-03	DUCT TEMPERATURE SENSORS- 8 INCHES	BA/10K3-D8WP	BAPI
2	CO2-01 & 02	CARBON DIOXIDE SENSORS	KCD	KELE
2	DPT-01 & 02	DIFFERENTIAL PRESSURE TRANSMITTER	616	DWYER
1	SD-01	DUCT SMOKE DETECTOR	D4120	SYSTEM SENSOR
2	DA-01, 02 & 03	TWO POSITION DAMPER ACTUATOR WITH AUXILIARY SWITCHES	EFX, AFX & NFX SERIES	BELIMO
1	CV-01	TWO WAY VALVE/ MODULATING ACTUATOR	B2-SERIES	BELIMO
1	BC-I	BACnet CONTROLLER- 12UI/12UO	ECB-SERIES	DISTECH-CONTROLS



AHU CONTROL PANEL



AHU CONTROL DIAGRAM

ABACUS

ARCHITECTURE PSC

CONSULTANT

R.A.P. CONSULTING ENGINEER, P.S.C.

PROJECT NAME

NEW IMPROVEMENTS ACAA BUILDING
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

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DRAWING TITLE

VAC AUTOMATIC CONTOL SYSTEM

SCALE N.T.S.

VAC-3.0

tayco®

Switch is a uniquely sleek panel based product designed to enhance performance with electrics and data housed in a 2" thick panel.

Modular Panel Frames

- Frames are available in nominal heights of 34", 42", 50", 66" and widths of 24" - 60" in 6" increments.
- To meet ADA requirements, the frame is designed to provide for a worksurface height from 29" to 34" in 1" increments. Frames are designed to permit all hanging components (worksurfaces and shelves) to be adjusted in 1" vertical increments.
- Panel frames are 2" thick constructed of light weight wood core with steel slotted channels. Panels are finished with aluminum top caps and steel raceways.
- 3" nylon floor glides adjust a minimum of 2½" vertically to accommodate floor variance.
- Power panels can house a single or double sided quad-plex power module.
- Panel raceways have a two-piece clip-on metal wire-management baseboard cover. The cover is accessible on both sides of the panel and provides locations for electrical outlets.
- The baseline covers allow for the laying in of all cables, eliminating the need to thread wires through the base of the frame and around the corners.
- Frames are firmly secured together with metal connections
- Panel face options are laminate, fabric, tempered glass and fabric, tempered glass and laminate, acrylic and fabric, acrylic and laminate.
- Optional tempered glass or acrylic privacy screen can be fastened to top of panel with full length aluminum extrusion.
- Frames can be connected in two-way/90-degree, 3-way, 4-way or straight line configurations. Frames are secured so that light is not transmitted through the connectors.
- Frames are designed to permit frames of unequal heights to be connected together with appropriate finishing pieces.
- Top cap mounting clips come pre-installed on panel frames.

Panel Connectors

- Adjacent panel frames are connected directly to each other by use of metal brackets and fasteners for a strong metal-to-metal connection. There is no creepage between in-line connections.
- Three types of longitudinal wall connectors are available to match metal panel trim finishes Wall connectors solutions adjust from 2.25"- 6" to accommodate variances in wall measurements.

Panel Trim

- Top caps and end posts are extruded aluminum and available in four metal colours. An angled dye cast aluminum piece is used to finish off top cap and end post connections.
- 90 degree and T-Configurations are created with metal brackets and fasteners.

- 90 degree and T-Connections are always finished with aluminum extrusion fillers without the use of fasteners.
- Filler top caps are sold separately.

Panel Base

- Panel base raceways are constructed of 22-gauge electro-galvanized steel, powder painted with knockouts for lay-in of cables for electrical and voice/data capabilities. Base raceways are 5 ½" in height to accommodate electrical and communication routing for continuous wiring and cables.
- Raceways are connected to the panel by a spring system and are easily removable for access to power/data elements.

Gallery Panel

- Panels are available in 34", 42" or 50" heights.
- Gallery panels are specified as mid-run or end of run. Mid run gallery panels have a hole at the base to allow for wire passage
- Gallery panels up to 56" wide are one piece. Gallery panels more than 56" wide are two pieces.
- Wood grain gallery panels are offered up to 110" wide. Solid coloured gallery panels are available up to 146" wide.

Electrical Components

- All electrical components are based on NEC standards and are therefore UL listed and CSA-certified
- The electrical system is an eight-wire four-circuit system. Each circuit is rated for 15 amps/120 volts. Base power modules consist of a quad-plex with two isolated and two common circuits. Isolated circuits are shielded to prevent electromagnetic interference. Isolated receptacles are made evident by their orange color. Electrical harnesses have a metal flex casing to prevent interference with voice/data cabling to shield all electrical wires.

Electrical harnesses easily snap together to make a connection.

Electrical components for non-adjacent panels can be configured using by means of an electrical bypass harness.

The system allows for electrical access from the floor, wall or ceiling. Power poles are available in two standard heights and four metal colors to match metal finish trims.

Electrical power modules are rated for 15amps/120 volts.

Power modules can be specified as double- or single-sided to accommodate one station or two stations back to back.

Open-wire starter harnesses come in 72" and 168" lengths and are hard wired into the electrical system of the building.

Electrical harnesses are available in singular lengths ranging from 22" to 145" at 3" increments or as a combination of two harnesses up to 181" in length.

Voice/Data

- Voice/data access is available at the panel base.
- Voice (RJ11) jacks are rated CAT3.
- Data (RJ45) jacks are rated CAT 6. The transmission speed is 1000 megabits per second.

Modular Countertops

- Modular countertops are available in lengths of 24" to 60" in 6" increments and a depth of 15".
- Countertops are fabricated from laminate.
- Countertop brackets are specified to match panel trim colours

Worksurfaces

- Worksurfaces are available in 19", 20", 23", 24", 29" or 30" depths and widths from 23" - 96". Non-standard sizes are available upon request.
- Surfaces can be supported by pedestals, end gable, cantilever,

metal bracket or metal gable.

- Surfaces are fabricated from thermally fused melamine with 45 lb./cu. ft. density industrial grade composite wood core. Surfaces are finished on all sides with 2-mm vinyl edge banding. Worksurfaces can hang from both sides of the support structures and be adjustable up or down in 1" increments.
- Worksurfaces are available with and without ABS grommets.
- All worksurfaces come standard as 1" thick with 18 laminate finish options and are trimmed with 2mm edge banding. High Pressure Laminates and COM Laminates available upon request.
- Drop return worksurfaces are available with 2 side accessible USBs and 2 simplexes.

Worksurface Supports

- Switch features three end gable types; wrap leg, ladder leg, laminate gable leg.
- All legs can be freestanding or mounted against a panel.
- Wrap leg is a combination of 22" laminate construction and 1"x1" steel tubing.
- Ladder leg is constructed of 1"x1" and 1"x 2" steel tubeing and is available in four metal colours.
- Gable leg is constructed of laminate.
- Horizontal supports can be specified for worksurfaces with an unsupported width greater than 48", eliminating the need for an additional cantilever support.
- Horizontal surface supports are constructed of 14-gauge steel.

Cantilever Supports

- Cantilever worksurface supports are universal, right- or left-handed to suit the specific configuration. The system does not require the use of mending plates to support adjacent worksurfaces, as they are incorporated into the cantilever support.
- Cantilever supports are constructed of 12-gauge steel and powder-coated black.
- Cantilever supports are available in 16" and 22" lengths to accommodate various worksurface depths.

Overhead Storage

- Overhead storage can be panel-mounted at 1" high increments.
- Storage units are manufactured in a variety of widths and can hang from both sides of the support structures and be adjustable up and down in 1" increments. Storage units include open metal shelves and closed storage shelves with lockable doors available in metal or laminate fronts.

Flipper Cabinets

- Flipper cabinets have an 16-gauge steel top and bottom and 12-gauge steel sides, come standard with a lock and are available in four powder-coated finish options.
- Flipper cabinets are 15" deep and 16" high and are available in widths of 30", 36", 42", 48", 54" and 60".
- Cabinet faces are available in metal powder-painted 20-gauge steel or laminate. Cabinets have a 15" steel ball bearing slide and the option of being manufactured with an easy-down hydraulic cylinder slide.

Metal Shelves

- Metal shelves are constructed from steel and are powder painted.
- Metal shelves are available in 30", 36", 42", 48", 54" and 60" widths and depths of 12".

Pedestals

- Under-desk pedestals are available in laminate or metal construction. Mobile, freestanding and gable pedestals

are available in laminate construction.

- 1.5" levelers on all cabinetry allowing for 1" height adjustment.
- Pedestals drawers are available in combinations of 6" and 12"-high drawers.
- Box drawers have full-extension steel ball bearing slides and rubber stoppers.
- File drawers have full-extension steel ball bearing slides and rubber stoppers.
- Drawer slides are used to attach the drawer to the case. Drawer slides have the capacity to support a load of up to 100lb. Drawers and slides are removable .
- All pedestals come equipped with a locking mechanism. Stations can be keyed alike upon request and a master key will be made available to the facility's manager.
- Pedestal file drawers offer the option to file documents from front to back or side to side.

Metal Pedestals

- Metal pedestals are 20-gauge steel construction and are available in white or silver. Drawer fronts are double-wall steel construction.
- Metal pedestals can be specified in file/file or box/box/file configurations.
- Box drawers are slotted to provide slot storage.
- Pedestals can be specified for use under 23", 24" and 29" and 30" deep surfaces and include and end gable that attaches to the panel for structural support.

Laminate Pedestals

- Laminate pedestals are constructed of $^5/_8$" thermally fused melamine
- Mobile pedestals come equipped with a fifth wheel on the bottom drawer to ensure stability, in place of a counterweight.

Underdesk Pedestals

- Underesk pedestals are available in laminate or metal construction to fitbelow an extended corner, rectangular or curvilinear desk module.

Laminates Gable Pedestals

- Gable pedestals are available in laminate construction and have 24" or 30" deep finished sides to act as a worksurface support, as well as filing space, to eliminate the need for a separate laminate gable support for the worksurface.
- Gable pedestals fit below an extended corner, rectangular or curvilinear desk module.

Lateral Files

- Lateral files are available as freestanding or under-desk filing.
- Lateral files are constructed of $^5/_8$" thermally fused melamine casings and drawer fronts and easily reconfigurable drawer modules.
- Lateral file drawers are capable of supporting a load of up to 200lb.
- Full-extension metal ball bearing slides on the drawers allow complete and unobstructed access with front-to-back or side-to-side filing rails to maximize the use of drawer filing space and to better organize documents. Legal- and letter-size documents can be filed front to back or laterally within the drawer.
- Units have an anti-tilt safety mechanism that prevents more than one drawer from opening at the same time.
- All lateral files come equipped with a locking mechanism. Stations can be keyed alike upon request. and a master key made available to the facility's manager.
- Lateral files have four 1.5"-high glides that allow the lateral file to adjust up to 1" in height.

tayco®

Underdesk Lateral Files

- Underdesk lateral files are available in widths of 30" or 36".
- A 2-drawer lateral file fits below a 24" or 30" deep passage extended corner, rectangular or curvilinear desk module.

Freestanding Lateral Files

- Freestanding lateral files are available in two-drawer-high, three-drawer-high and four-drawer-high configurations. Two-drawer lateral files are vailable in 30", 36" or 42" widths. Three-drawer and four-drawer laterals are available in widths of 30" and 36".
- Freestanding lateral files have a built-in an anti-tilt mechanism that only allows one drawer to be opened at a time for safety purposes. Lateral file case and fronts are constructed of laminate. Drawer interiors in lateral files accept adjustable rails for filing letter and legal hanging files.
- The lateral file top is $^5/_8$" thick thermally fused melamine with 45 lb. wood core. The top attaches to the lateral file case.

Credenza

- Credenzas are available in left handed and right handed with widths of 48", 60", 72".
- Half the width of the credenza has open storage. The other half of the credenza has lockable storage; one drawer accommodates letter/legal filing and one for simple storage.
- Optional fabric cushion which is ordered separately is available for top of the credenza.

Combination Storage Towers

- Combination storage towers are available in 42" or 50" high and have depths of 24" and 30"
- Underdesk drawers can be configured either box, box, file or file, file.
- Combination storage towers above the work surface are open for side access.
- Combination storage comes with a coat bar.

Wardrobe Towers

- Wardrobe Towers are available in 18" wide.
- Wardrobe Towers come with a coat bar.

Storage Towers

- Storage towers are 42" and 50" high, 24" or 30" deep, specified in left and or right hand.
- Storage cabinets come with both fixed and adjustable shelves.

Laminate, Vinyl and Metal Handle Finishes for Filing and Cabinetry

- Filing and cabinetry are available in 18 laminate finishes. Drawer handles are available in seven decorative options. Cabinets are finished with a combination of laminate and 2-mm vinyl edge banding.
- Vinyl edge banding is available in wood grain finishes to match standard laminates.
- Doors and drawer fronts may be specified with a different laminate than the file or cabinet casing.

Organizing Tools

- A variety of work accessories can be hung from accessory rails. They are adjustable up or down in 1" increments without the use of tools.

Modular Electrical Distribution System

- Power panels can house a single or double sided fourplex power module. Power modules are eight-wire four-circuit with four 15-amp circuits. Two circuits havethe capacity to be completely isolated. Baseline simplex receptacles are modular and can be installed without the use of tools. All

receptacles will be factory-designated to identfy which circuit they supply and can be located both at baseline and worksurface level.

- A modular power entry block is available to energize the system. It has a six-foot long wire whip for the general contractor or owner's electrical contractor to connect into the building power supply. The entire electrical system is UL-listed and CSA-certified.

Wire Management

- Baseline wire-management side covers are securely hinged for easy access to cables and electrical; these covers include electrical receptacles and cable access.

Power Poles

- Power poless can supply power at a two-way/90-degree connector, a three-way T-connector, four-way/90-degree connector and gallery panels.
- Power poles are extruded aluminum.

Clamp On Power

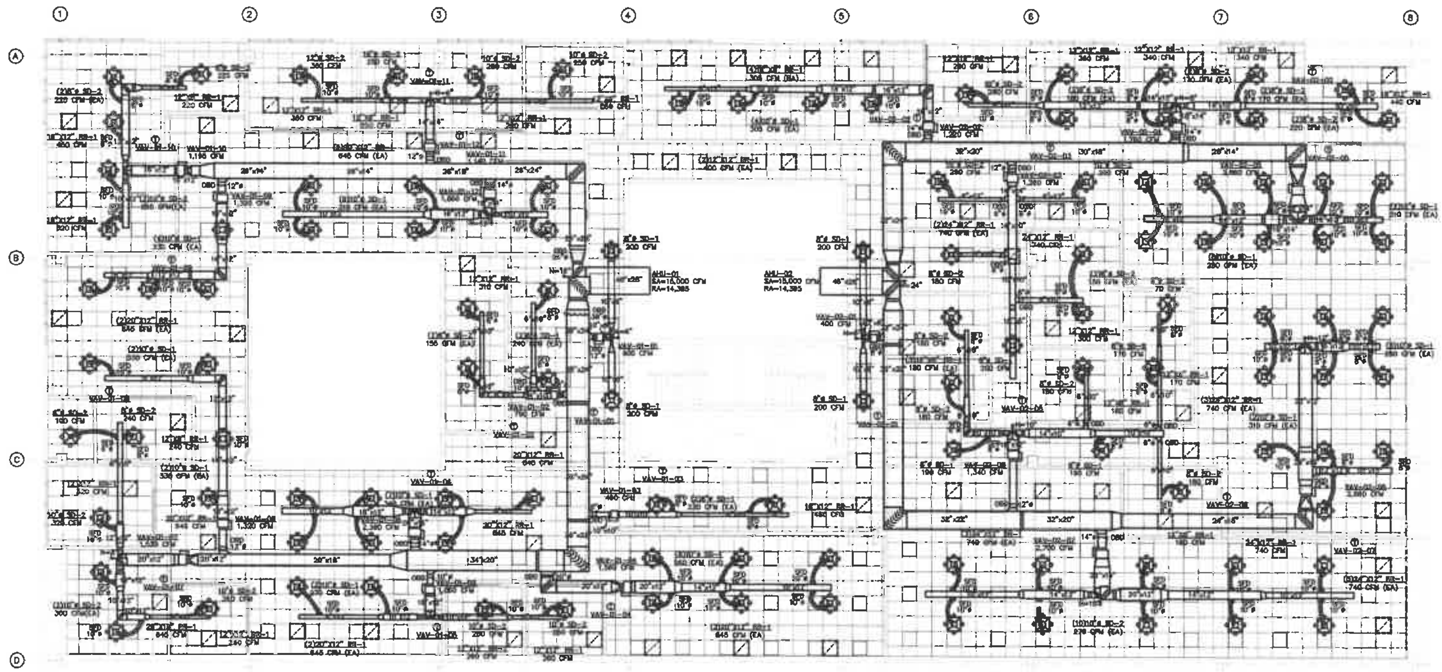
- Clamp On Power come equipped with 2 grounded receptacles, 2 DC 5V 2.1A USB charging ports, angle mounting brackets and 10' 14 AWGx3C Power Cord.
- Units have a 120V 60Hz 15A electrical rating.
- Units are UL listed. c UL us LISTED

Lights

- Task lights are UL-listed, CSA-certified and available in nominal widths of 24", 36", and 48". They can hang from the bottom side of both open and closed metal shelving units. They do not require the use of the tools to install and come with a fluorescent lamp, switch, cord and plug.

Accessories

- Articulating keyboard trays allow the user to swivel, lift, lower and tilt the keyboard from the horizontal position to a negative angle. Keyboard mouse trays come standard on keyboard trays and can be easily positioned on the left- or right-hand side of the keyboard to accommodate the user.
- Paper-management accessories are leaser-cut steel. Accessory bars and accessory tiles ar emade from extruded aluminum. Paper-management accessories, bars and tiles are available in a choice of nine powder-coat finishes.
- Under-desk and mobile CPU holders are available.
- Mold-injected pencil drawers are 21" wide by 16" deep and are available in black.



8TH LEVEL REFLECTED CEILING PLAN–VAC LAYOUT

SCALE: ¾"=1'-0"

NOTES:

1. COORDINATE LOCATION OF TEMPERATURE CONTROLLERS AND TEMPERATURE SENSORS AT FIELD WITH OWNER.
2. EXPOSED EQUIPMENT SHALL BE ANCHORED TO WITHSTAND HURRICANE FORCE WINDS.
3. PROVIDE CORROSION PROTECTION TO ALL WEATHER EXPOSED MECH. EQUIPMENT BY MEANS OF FIELD APPLIED PRODUCT.
4. ALL ROOF AND WALL OPENING SHALL BE COORDINATED WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. CEILING EXHAUST FAN SIMILAR TO –, 80 CFM, .07 AMPS, 120/1/60. INTERLOCKED WITH LIGHTING FIXTURE SWITCH.
6. ALL HANGING FAN COIL UNITS SHALL HAVE A ACCESS DOOR FOR MAINTENANCE PURPOSES. COORDINATE WITH ARCHITECTURAL DWGS.
7. ACCESS DOOR SHALL BE EQUAL OR SIMILAR TO MIFAB MODEL CAD–FR, 24"x24"; RECESSED 1½".
8. FAN COIL UNITS CONDENSATE DRAIN PIPES SHALL BE 1"ø PVC INSULATED WITH ½" THICK CLOSED CELL ELASTOMATIC.
9. WALL EXHAUST FAN SIMILAR TO PANASONIC MODEL FV–05–11VK1, 80 CFM, .07 AMPS, 120/1/60. INTERLOCKED WITH LIGHTING FIXTURE SWITCH.

ABBREVIATIONS:

VAC	VENTILATION & AIR CONDITIONING
CFM	CUBIC FEET PER MINUTE
EF	EXHAUST FAN
SF	SUPPLY FAN
CD	CEILING DIFFUSER
RR	RETURN REGISTER
FCU	FAN COIL UNIT
CU	CONDENSING UNIT
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
EA	EXHAUST AIR
OAL	OUTSIDE AIR LOUVER
SD	SUPPLY DIFFUSER
OBD	OPPOSITE BLADE DAMPER
SFD	SPINNING FITTING DAMPER
PCU	POLLUTION CONTROL UNIT
AHU	AIR HANDLING UNIT
(EA.)	EACH
(T)	A/C THERMOSTAT RECOMMENDED LOCATION, COORD. WITH ARCHITECT
⊠	RETURN REGISTER. SEE SCHEDULE AT DWG VAC–2.0 (RR–1)

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02/01/2023

ABACUS

ARCHITECTURE PSC

CONSULTANT

R.A.P. CONSULTING ENGINEER, P.S.C.

PROJECT NAME

NEW IMPROVEMENTS ACAA BUILDING
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DRAWING TITLE

8TH LEVEL PROPOSED REFLECTED CEILING

SCALE 1/8"=1'-0"

VAC–1.0

A/C GENERAL NOTES:

1. BIDDERS SHALL VISIT THE BUILDING AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THEY ACTUALLY EXIST AND VERIFY DIMENSIONS, LOCATIONS AND DETAILS REQUIRED TO COMPLETE THE WORK. FAILURE TO VISIT THE PROJECT AREA WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER OF FURNISHING ALL MATERIAL AND PERFORMING ALL WORK REQUIRED FOR THE COMPLETION OF THE CONTRACT. VISIT TO THE PROJECT AREA SHALL BE ARRANGED THROUGH THE BUILDING MANAGER.
2. CONTRACTOR SHALL PROVIDE SUITABLE VIBRATION ISOLATION FOR THE SYSTEM AS RECOMMENDED BY MANUFACTURER OF EQUIPMENT SPECIFIED OR PROVIDED.
3. CONTRACTOR SHALL FURNISH AND INSTALL PIPING VALVES, SENSORS, CONTROL SYSTEMS AND ANY OTHER ITEM REQUIRED FOR THE FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
4. IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND FOR FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
5. CONTRACTOR SHALL PAINT ALL PIPING, PIPE INSULATION, FITTINGS, VALVES AND ALL EQUIPMENT TO BE INSTALLED.
6. THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE DUCT AND PIPING ARRANGEMENTS AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
7. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED WITH THE APPROVAL OF THE OWNER IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
8. CONTRACTOR SHALL LOCATE IN FULLY ACCESSIBLE POSITIONS ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED. CONTRACTOR IS RESPONSIBLE OF COMPLY WITH EACH EQUIPMENT MANUFACTURER RECOMMENDED CLEARANCE.
9. IN CASE OF DISCREPANCY BETWEEN THE EQUIPMENT SPECIFIED AND THE EQUIPMENT SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL ARRANGE FOR THE PROPER INSTALLATION OF THE EQUIPMENT.
10. CONTRACTOR SHALL FURNISH AND INSTALL AIR CONDITIONING EQUIPMENT, DUCTS, INSULATION, PIPING VALVES, SENSORS, CONTROL SYSTEMS AND ANY OTHER ITEM REQUIRED FOR THE PROPER FUNCTIONING AND OPERATION OF THE SYSTEM.
11. MECHANICAL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
12. DUCTWORK:
    - A– DUCT MATERIAL – SHALL BE GALVANIZED SHEET METAL, AND MANUFACTURED AND INSTALLED IN ACCORDANCE WITH LATEST EDITION OF THE DUCT CONSTRUCTION STANDARDS OF SMACNA FOR THE APPLICABLE PRESSURE CLASS.
    - B– DUCT WORKMANSHIP – ALL DUCTWORK SHALL BE CONSTRUCTED AND ERECTED IN A WORKMANLIKE MANNER. DUCTS SHALL BE STRAIGHT AND SMOOTH ON THE INSIDE WITH NEATLY FINISHED JOINTS, AIRTIGHT, AND SHALL BE FREE FROM VIBRATION UNDER ALL CONDITIONS OF OPERATION. THE INTERNAL ENDS OF SLIP JOINTS SHALL BE MADE IN THE DIRECTION OF AIR FLOW. CHANGES IN DIMENSIONS AND SHAPE OF DUCTS SHALL BE GRADUAL. ALL DUCT SIZES SHALL FALL WITHIN THE LIMITING DIMENSIONS INDICATED ON THE DRAWINGS UNLESS OTHERWISE APPROVED. CURVED ELBOWS, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, SHALL HAVE A CENTER LINE RADIUS EQUAL TO 1 1/2 TIMES THE WIDTH OF THE DUCT. AIR TURNS SHALL BE INSTALLED IN ALL ABRUPT ELBOWS AND SHALL CONSIST OF CURVED METAL BLADES OR VANES, ARRANGED TO PERMIT THE AIR TO MAKE THE TURNS WITHOUT APPRECIABLE TURBULENCE. THEY SHALL BE THE MANUFACTURER'S STANDARD PRODUCT AND SHALL BE QUIET WHEN THE SYSTEM IS IN OPERATION. CONFIGURATION OF DUCTS SHALL BE AS INDICATED ON DRAWINGS. DUCT HANGER SHALL BE AS INDICATED ON DRAWINGS.
13. ALL DUCT WORK AND PIPING SHALL BE PROVIDED WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH IBC & N.F.P.A. STANDARDS.
14. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE CONCRETE SLABS PENETRATION WORKS WITH OWNER, STRUCTURAL ENGINEER AND ARCHITECTURAL DRAWINGS.
15. EXPOSED AIR DUCT INSULATION SHALL BE 2" THICK JOHNS–MANVILLE NO. 817 (8 lbs/ft) RIGID FIBERGLASS DUCT INSULATION WITH A FACTORY APPLIED FOIL–SCRIM–KRAFT (FSK) VAPOR BARRIER FACING. COVER ALL INSULATION WITH GLASS FABRIC MESH USING FOSTER SEALFAS MASTIC. INSULATION SHALL HAVE A "K" FACTOR=0.22 Btu–in/hr.–ft –T @ 75F.
16. CONCEALED AIR DUCT INSULATION SHALL BE 1 1/2" THICK JOHNS–MANVILLE R–SERIES MICROLITE FIBER GLASS BLANKET WITH A FACTORY APPLIED FOIL–SCRIM–KRAFT (FSK) VAPOR BARRIER FACING. INSULATION SHALL HAVE A "K" FACTOR= 0.31 Btu–in/hr–ft @ 75F.
17. ALL SHEETMETAL DUCTWORK SEAMS & JOINTS MUST BE SEALED WITH HIGH PRESSURE DUCT SEALER AS MANUFACTURED BY MINNESOTA MINING & MANUFACTURING CO. MODEL EC–800 OR APPROVED EQUAL. AIR LEAKS MUST BE 6% OR LESS. TEST DUCTWORK BEFORE FINAL CONNECTION TO AHU'S & AIR DISTRIBUTION.
18. FOR EXACT LOCATION OF CEILING DIFFUSERS REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
19. THE CONTRACTOR MUST FURNISHED & INSTALL A U.L. APPROVED FIRE DAMPER WITH 10 GAUGE METAL SLEEVE AND DUCT ACCESS DOOR WHERE SHOWN ON DRAWINGS, AS REQUIRED BY LOCAL BUILDING CODES, OR AS REQUIRED BY N.F.P.A. FIRE DAMPERS SHALL BE CURTAIN TYPE AS MANUFACTURED BY RUSKIN MODEL IBD2 STYLE C OR APPROVED EQUAL.
20. ALL MATERIAL AND SPECIALTIES REQUIRED FOR THIS WORK SHALL BE NEW (UNLESS OTHERWISE INDICATED), OF FIRST–CLASS QUALITY AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL, AND SHALL BE SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. DURING STORAGE ON THE JOB SITE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP PIPE ENDS PLUGGED OR CAPPED TO PREVENT DIRT OR MOISTURE ENTERING THE PIPE.
21. PROVIDE SMOKE DETECTORS AS PER N.F.P.A. 90A.
22. REFRIGERANT PIPING MATERIAL: SHALL BE TYPE "K" COPPER TUBING, HARD DRAWN WITH WROUGHT COPPER SOLDER TYPE FITTINGS SUITABLE FOR CONNECTION WITH SILVER SOLDER AND SHALL BE COVERED WITH ALUMINUM JACKET.
23. COOLING COIL CONDENSATE DRIP PIPING MATERIAL: SHALL BE TYPE "M" COPPER OR SCH.40PVC.
24. GLOBE VALVE: SHALL BE CONSTRUCTED OF FORGED BRASS AND SHALL BE OF THE BACKSEATING TYPE SUITABLE FOR 500 PSI.
25. CHECK VALVES: SHALL BE CONSTRUCTED OF FORGED BRASS SUITABLE FOR 500 PSI.
26. SOLENOID VALVES: SHALL BE CONSTRUCTED OF FORGED BRASS SUITABLE FOR 400 PSI.
27. REFRIGERANT STRAINERS: SHALL BE CONSTRUCTED OF FORGED BRASS SUITABLE FOR 350 PSI. PROVIDE 100 MESH STRAINER.
28. MOISTURE INDICATOR: SHALL BE CONSTRUCTED OF FORGED BRASS WITH OPTICAL GLASS SUITABLE FOR 500 PSI.
29. FILTER DRAINS: SHALL BE CONSTRUCTED OF STEEL WITH STEEL COVER REPLACEABLE FILTER DRIER COVER.
30. ALL ELBOWS SHALL BE OF THE LONG RADIUS TYPE.
31. REFRIGERANT PIPING INSULATION MATERIAL: SHALL BE CLOSED CELL ELASROMETRIC 1/2" THICK ALL PIPE SIZES. K=0.25 @ 75F.
32. CONTRACTOR SHALL PROVIDE INDIRECTLY CONNECTED CONDENSATE DRAIN TO A/C UNITS. COORDINATE WITH PLUMBING DRAWINGS.
33. ALL EXPOSED DUCTWORK SHALL BE PAINTED AS PER ARCHITECT'S COLOR CODING.
34. CONTRACTOR SHALL BE RESPONSIBLE OF SUBMIT DUCTWORK SHOP DWG. FOR APPROVAL. NO CHANGE ORDER WILL BE ALLOWED FOR DUCTS MODIFICATIONS RESULTING FROM NEW–COORDINATED SHOP DRAWINGS.
35. PROVIDE CONDENSATE DRAIN PUMP FOR FCU'S IF SLOPE IS NOT ATTAINED.
36. COORDINATE LOCATION OF TEMPERATURE CONTROLLERS AT FIELD WITH OWNER.
37. EQUIPMENT AT ROOF SHALL BE ANCHORED TO WITHSTAND HURRICANE FORCE WINDS.
38. PROVIDE CORROSION PROTECTION TO ALL WEATHER EXPOSED MECH. EQUIPMENT BY MEANS OF FIELD APPLIED PRODUCT.
39. PROVIDE 1" THICK INTERNAL ACOUSTICAL LINING TO FIRST 10'–0" OF SUPPLY & RETURN DUCTWORK. SIMILAR TO SCHULLER PERMACOUSTICS.
40. PROPERTIES OF MATERIALS ASSUMED AT THE COOLING LOAD CALCULATIONS:
    - A. ROOF – R=30 HFT2F/BTU
    - B. ROOF SKY LIGHT – U=0.8 BTU/HFT2F / SHGC=0.3
    - C. WALLS – R=7.8 HFT2F/BTU
    - D. WINDOWS – SINGLE PANE CLEAR 1/8"
    - E. SALES AREA LPD – 1.56 W/FT2
    - F. OCCUPANCY – 200 PEOPLE

VARIABLE AIR VOLUME BOX SCHEDULE

DESIGNATION	AIRFLOW(CFM) MAX.	AIRFLOW(CFM) MIN.	PD @ MAX. (INCH WG)	MANUFACTURER	MODEL	UNIT SIZE	CONTROL	REMARKS
VAV-01-01	400	50	.25	TRANE	VCCF	8	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-02	780	80	.25	TRANE	VCCF	8	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-03	460	50	.25	TRANE	VCCF	8	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-04	1,560	160	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-05	1,050	110	.25	TRANE	VCCF	10	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-06	2,380	240	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-07	1,600	160	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-08	1,320	140	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-09	1,320	140	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-10	1,195	120	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-11	1,140	120	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-01-12	1,660	190	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-01	400	50	.25	TRANE	VCCF	8	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-02	1,220	125	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-03	1,280	130	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-04	1,760	180	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-05	2,880	280	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-06	2,880	280	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-07	2,700	270	.25	TRANE	VCCF	14	WALL MAUNTED TERMOSTAT	WITH ACTUATOR
VAV-02-08	1,340	135	.25	TRANE	VCCF	12	WALL MAUNTED TERMOSTAT	WITH ACTUATOR

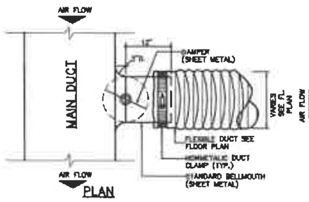
AIR TERMINALS SCHEDULE

DESIG.	TYPE	MODEL	MANUFACTURER	REMARK
SD-1	SUPPLY DIFFUSER	5000-8	METAL AIRE	ALUMINUM CONSTRUCTION
SD-2	THERMAL VAV DIFFUSER	TF	THERMAFUSER	ALUMINUM CONSTRUCTION
RR-1	RETURN REGISTER	RHD	METAL AIRE	ALUMINUM CONSTRUCTION

*PROVIDE TR TRANSITION WHEN REQUIRED

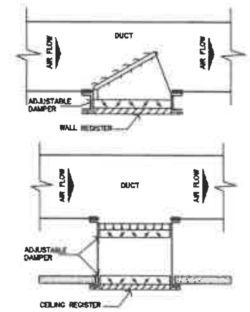
BALANCING:

1. THE A/C CONTRACTOR SHALL PROVIDE AIR AND HYDRONIC SYSTEM BALANCING.
2. PERFORM AIR & HYDRONIC BALANCING BY A INDEPENDENT THIRD PARTY NEBB OR AABC CERTIFIED AIR BALANCE CONTRACTOR SHALL ACCURATELY BALANCE THE AIR SYSTEMS TO PROVIDE AIR QUALITIES INDICATED ON THE DRAWINGS AND IN THIS SPECIFICATION. OPERATE AUTOMATIC CONTROLS SYSTEM AND VERIFY SET POINTS DURING BALANCING. THE FINAL READING AND ADJUSTMENT SHALL BE PERFORMED WITH THE PRESENCE OF THE OWNER'S REPRESENTATIVE. SUBMIT TAB REPORT TO THE ENGINEER FOR APPROVAL.
3. PRESURIZATION LEAKAGE AND INFILTRATION TEST SHALL BE PERFORMED PER SMACNA STANDARDS AND TECHNICAL SPECIFICATIONS.
4. THE AIR DISTRIBUTION SYSTEM AND DEVICES SHALL BE BALANCED FOR PROPER AIR FLOW. TEST DATA OF THE BALANCING OF THE SYSTEMS SHALL BE SUBMIT TO THE ARCHITECT FOR REVIEW. ALL AIR QUANTITIES SHALL BE SET TO WITHIN 10% OF THE LISTED QUANTITIES. DEFLECTION VANES SHALL BE SET TO ELIMINATE ANY EXCESSIVE AIR MOVEMENT IN THE AREA.
5. THE AIR SIDE BALANCING SHALL INCLUDE:
    1. RECORD MOTOR FULL LOAD AMPS AND ACTUAL OPERATING AMPERAGE.
    2. RECORD SUPPLY, RETURN AND OUTSIDE AIR TEMPERATURES.
    3. MAKE PITOT TUBE TRAVERSE OF MAIN SUPPLY DUCT AND OBTAIN DESIGN CFM AT FAN AND FAN RPM.
    4. RECORD SYSTEM STATIC PRESSURES, RETURN AND DISCHARGE.
    5. FIVE (5) COPIES OF BALANCING REPORTS CONTAINING THE DATA MENTIONED ABOVE AND SHALL BE GIVEN TO THE OWNER'S REPRESENTATIVE.
6. BALANCING WORK SHALL FULLY COMPLY WITH A.A.B.C. OR N.E.B.B.



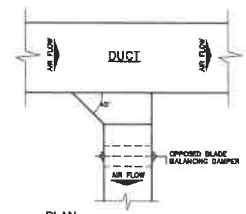
PLAN

BELLMOUTH & FLEXIBLE DUCT INSTALLATION DETAIL
SCALE: N.T.S.

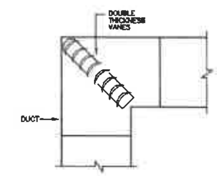


DETAIL APPLIES TO EACH WALL OR CEILING MOUNTED SUPPLY, RETURN OR EXHAUST REGISTER AND DIFFUSER.

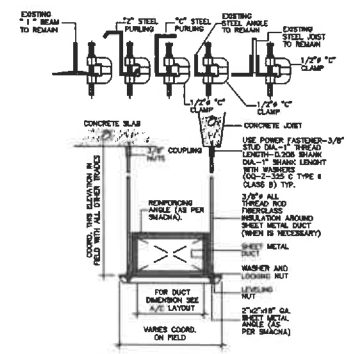
SUPPLY DIFFUSER, EXHAUST OR RETURN REGISTER MOUNTING DETAIL
SCALE: N.T.S.



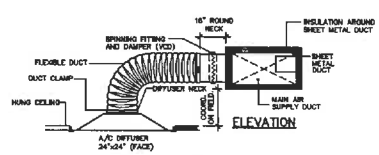
PLAN
TYPICAL TAKE-OFF DETAIL
SCALE: N.T.S.



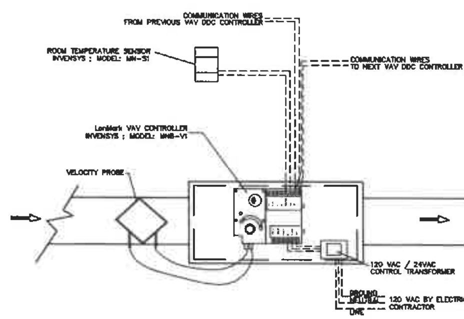
PLAN
SQUARED VANED ELBOW
SCALE: N.T.S.



ELEVATION
SUPPLY,RETURN OR EXHAUST SHEET METALDUCT HANGER DETAIL
SCALE: N.T.S.



CEILING DIFFUSER & FLEXIBLE DUCT INSTALLATION DETAIL
SCALE: N.T.S.



VAV DDC CONTROLLER CONTROL DIAGRAM
TYPICAL FOR ROOM TEMPERATURE CONTROL APPLICATION
SCALE: N.T.S.

ADVANCE COPY - NOT FOR CONSTRUCTION
09/07/2022

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CONSULTANT
R.A.P. CONSULTING ENGINEER, P.S.C.

PROJECT NAME
NEW IMPROVEMENTS ACAA BUILDING
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

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DRAWING TITLE
VAC NOTES
SCHEDULES AND DETAILS

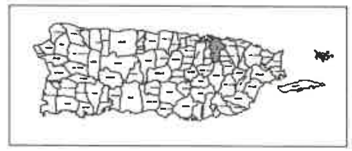
SCALE N.T.S.
DRAWING No. VAC–2.0

IMPROVEMENTS ACAA BUILDING 8TH FLOOR

255-273 AVENIDA DE LA CONSTITUCION

SAN JUAN, PUERTO RICO

LOCATION PLAN



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PROJECT NAME

IMPROVEMENTS ACAA BUILDING 8TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

No.	DESCRIPTION	DATE
1	ADDENDA	1-23-23

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DRAWING TITLE
TITLE AND INDEX SHEET

HERNAN R. HERNANDEZ PUERTO RICO

JAN 2021

T-1.0

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO ACTUAL CONSTRUCTION OR INSTALLATION. IN CASE OF ANY DISCREPANCY WITH THE CONSTRUCTION DOCUMENTS, OR DOUBTS AS TO THE INTERPRETATION OF SAID DOCUMENTS, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED AND CONSULTED FOR CLARIFICATION PRIOR TO CONSTRUCTION OR INSTALLATION.
2. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES INFLICTED TO THE OWNER'S PROPERTY OR OTHER AREAS DURING THE EXECUTION OF THE WORK.
3. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT ALL SHOP DRAWINGS FOR REVIEW PRIOR TO COMMENCEMENT OF THE WORK.
4. ALL MATERIALS AND CONSTRUCTION METHODS USED MUST COMPLY WITH ALL GOVERNING REGULATIONS AS SET FORTH BY THE PUERTO RICO PLANNING BOARD, AND ALL OTHER CONCERNED REGULATORY AGENCIES.
5. NEW CONSTRUCTION INCLUDING CONCRETE, MASONRY, PLASTER, DOORS, FRAMES, AND MISCELLANEOUS UNFINISHED METALS (OTHER THAN STAINLESS STEEL) SHALL BE PAINTED UNLESS OTHERWISE INDICATED.
6. THE CONSTRUCTION SITE SHALL BE MAINTAINED REASONABLY NEAT AND FREE FROM EXCESSIVE ACCUMULATION OF TRASH AND DEBRIS. ALL TRASH, DEBRIS, RUBBISH, ETC SHALL BE PROMPTLY REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
7. ALL STEEL CONSTRUCTION ELEMENTS ARE TO BE PRIMED WITH GALVANIZED METAL PRIMER AND PAINTED WITH AT LEAST TWO COATS OF ACRYLIC URETHANE ENAMEL. COLORS WILL BE DETERMINED BY ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.
8. ALL INTERIOR WALLS TO RECEIVE VINYL ACRYLIC LATEX PAINT COLORS WILL BE DETERMINED BY ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.
9. ALL EXTERIOR CONCRETE AND MASONRY TO RECEIVE ACRYLIC LATEX PAINT BY MANUFACTURER. COLORS WILL BE DETERMINED BY ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.
10. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED INSURANCE CERTIFICATES WITH THE DEPARTMENT OF BUILDINGS, AND OBTAIN ALL REQUIRED PERMITS.
11. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT REQUIRED FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED IF THEY WERE INDICATED IN THE DRAWINGS.
12. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH THE STIPULATIONS OF LOCAL AUTHORITIES, BUILDING MANAGEMENT OR BOARD OF DIRECTORS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
14. THE CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER TRADES: PLAMBING ELECTRICAL,ETC.
15. PLUMBING WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN THROUGH THE DEPARTMENT OF BUILDINGS ALL REQUIRED PERMITS, INSPECTIONS, AND REQUIRED SIGN OFFS.
16. ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN THROUGH THE BUREAU ELECTRICAL CONTROL ALL REQUIRED PERMITS, INSPECTIONS AND REQUIRE DESIGNS OFFS.
17. THE CONTRACTOR SHALL DO ALL CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.

Abbreviations

ABC	above counter
ABV	above
A/C	air conditioning
ACT	acoustical tile
ACV	air conditioning and ventilation
ADJ	adjacent
ADJT	adjustable
AFF	above finished floor
AGG	aggregate
BD	board
BLDG	building
BLK	block
BM	bench mark
BO	by others
BOB	bottom of beam
CAB	cabinet
CPT	carpet tile
CB	catch basin
CEM	cement
CER	ceramic
CHT	ceiling height
CIR	circle
CL	center line
CLG	ceiling
CO	clean out
COL	column
CONC	concrete
CONT	continuous
CT	ceramic tile
CW	cold water
DBL	double
DEM	demolish/demolition
DET	detail
DF	drinking fountain
DIA	diameter
DIM	dimension
DN	down
DR	door
DWG	drawing
EC	electrical closet
E.J.	expansion joint
ELEC	electric (al)
EMER	emergency
ENC	enclosure
EQ	equal
EST	estimate
ETC	etceteras
EXP	exposed
EXT	exterior
FAI	fresh air intake
FBO	furnished by others
FD	floor drain
FE	fire extinguisher
FFE	finished floor elevation
FFL	finished floor line
FH	full height
FIN	finish/finished
FL	floor
FLG	flashing
GA	gauge
GALV	galvanized
GC	general contractor
GL	glass
GRD	ground
GYP	gypsum
HB	hose bibb
HC	hollow core
HDC	handicapped
HDW	hardware
HM	hollow metal
HOR	horizontal
HT	height
HW	hot water
ID	inside
INT	interior
IP	interior paint
INV	invert
JAN	janitor
JC	janitors closet
KIT	kitchen
KO	knockout
L	length
LAM	laminated
LAV	lavatory
LH	left hand
LVR	louver
M	meter (s)
MAINT	maintenance
MAS	masonry
MAX	maximum
MECH	mechanical
MFG	manufacturer
MH	manhole
MIN	minimum
MISC	miscellaneous
MO	masonry opening
MTD	mounted
MTL	material
N	north
NAT	natural
NO	nominal
NTS	not to scale
N.I.C.	not included in contract
OA	overall
OC	on center
OD	outside diameter
OH	overhead
OPP	opposite
PL	plate
PL	property line
PLAS	plaster
P T	pressure treated
QT	quarry tile
QTY	quantity
R	riser
RAD	radius
REF	reference
REL	relocated
REV	revision (s)
RH	right of way
RM	room
ROW	right of way
R.L.	rain leader
S	south
SHT	sheet
SIM	similar
SPCP	smooth portland cement plaster
SST	stainless steel
STA	station
STD	standard
STL	steel
STOR	storage
SYM	symmetry
T	toilet
T	tread
TEL	telephone
THK	thick/thickness
T.O.	trimmed opening
TOW	top of wall
TYP	typical
UNF	unfinished
UR	urinal
U.O.N.	unless otherwise noted
VERT	vertical
VJ	v-joint (ed)
V.I.F.	verify in field
VT	vinyl tile
W	west
W	width
WB	wall base
WC	water closet
WD	wood
WH	wall hung
WIN	window
WO	without
YD	yard drain

ARCHITECTURAL SYMBOLS:

- NEW STRUCTURAL WALLS
- NEW CONCRETE BLOCK WALL THICKNESS AS PER CONSTRUCTION PLAN.
- NEW GYPSUM BOARD WALL THICKNESS AS PER CONSTRUCTION PLAN.
- AXIS LINES
- MAIN FLOOR ELEVATION
- CHANGE IN FLOOR ELEVATION
- CHANGE IN FLOOR FINISH
- SLOPE
- NOTES/REFERENCE

REFERENCE SYMBOLS:

- B.S. — LETTER OR NUMERAL DESIGNATION — BUILDING SECTION — SHEET WHERE FOUND
- W.S. — NUMERAL DESIGNATION — WALL SECTION — SHEET WHERE FOUND
- ELEV. — NUMERAL DESIGNATION — EXTERIOR ELEVATIONS — SHEET WHERE FOUND
- DETAIL NUMERAL DESIGNATION — DETAIL — SHEET WHERE FOUND
- LETTER DESIGNATION — INTERIOR ELEVATION — SHEET WHERE FOUND
- FINISH CODE — ROOM NUMBER/FINISH CODE — ROOM NUMBER
- HARDWARE — NUMBER DESIGNATION — DOORS — DOOR TYPE
- WINDOWS — LETTER DESIGNATION

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IMPROVEMENTS ACAA BUILDING 8TH FLOOR
265-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

No.	DESCRIPTION	DATE
1	ADDENDA	1-13-25

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GENERAL NOTES

SCALE

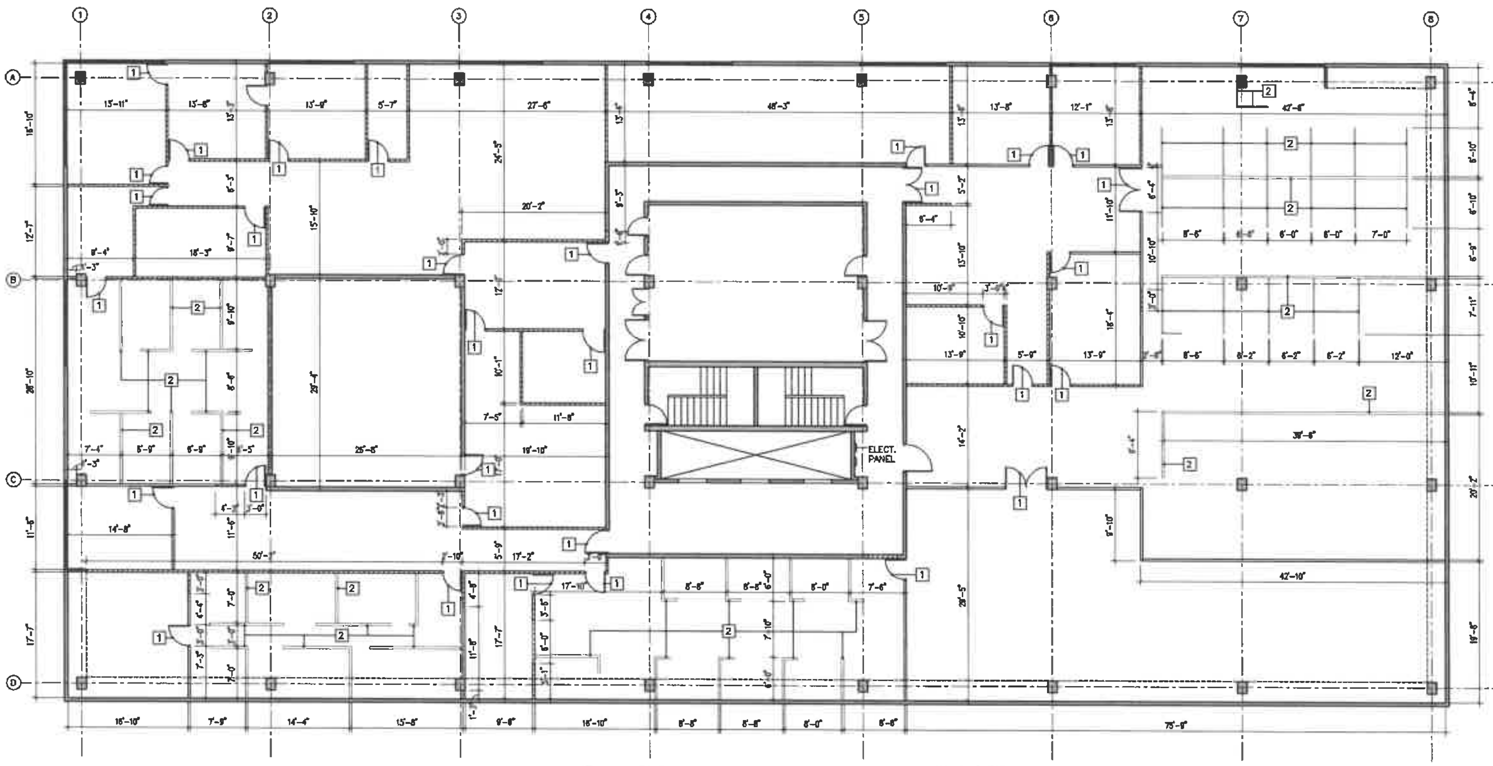
PROJECT No.

DATE

DRAWING No.

G-1.0

SHEET No.



8TH FLOOR EXISTING AND DEMOLITION PLAN

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

DEMOLITION NOTES

1. THE CONTRACTOR, BEFORE THE START OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING AT THE PROJECT SITE AND NOTIFY TO THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND THE DOCUMENTS OF THE CONTRACT THAT COULD AFFECT THE PROGRAM AND/OR THE ADEQUATE PERFORMANCE OF DEMOLITION WORK AND CONSTRUCTION.

2. THE CONTRACTOR SHALL DISPOSE OF ALL EXISTING DEBRIS AND WASTE MATERIALS FROM OFF-SITE DEMOLITION WORK AS INSTRUCTED BY THE OWNER.

3. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE CAUSED TO THE OWNER'S PROPERTY OR OTHER AREAS REMAINING DURING THE DEMOLITION AND CONSTRUCTION PHASES. DAMAGED ITEMS WILL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

4. DEMOLITION AND REMOVAL SHALL BE CARRIED OUT IN AN ORGANISED MANNER AND THE RELEASE OF DUST AND DEBRIS INTO THE AIR SHALL BE AVOIDED.

5. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE WITH THE OWNER ALL WORK TO BE PERFORMED IN THE AREAS IN CURRENT USE, SO AS NOT TO INTERFERE WITH NORMAL DAILY OPERATIONS.

DEMOLITION LEGEND

- EXISTING AREA TO BE DEMOLISHED
- GYPSUM WALL TO BE DEMOLISHED
- EXISTING GYPSUM WALL TO REMAIN
- 1 DOOR TO BE REMOVED AND DISPOSED
- 2 LOW PARTITION WALL TO BE REMOVED AND DISPOSED

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PROJECT NAME

IMPROVEMENTS ACAA BUILDING 8TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
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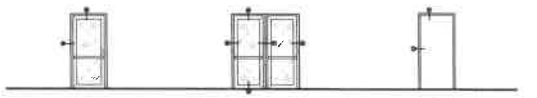
DRAWING TITLE
8TH FLOOR EXISTING AND DEMOLITION PLAN

SCALE 1/8"=1'-0"

DRAWING NO. DP-1.0

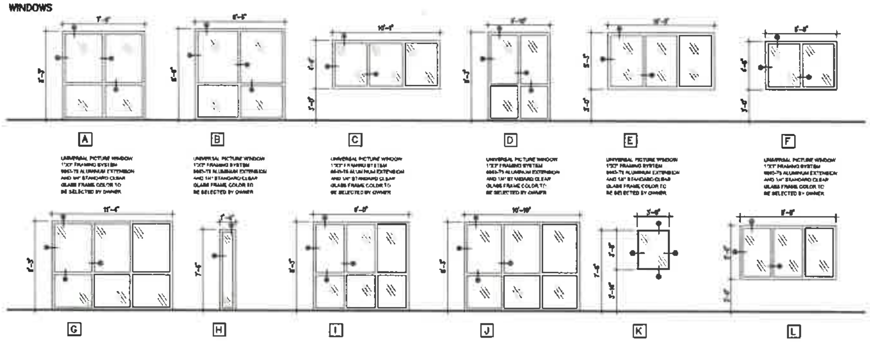
HERNAN R. HERNANDEZ PUERTO RICO

DOORS



TYPE–I | TYPE–II | TYPE–III

WINDOWS



FINISH NOTES:

FLOOR TYPES:

CPT 1: BY CUADRADO ALFOMBRAS. MANUFACTURER SHAW CONTRACT GROUP STYLE CHROMATONE TILE 5T444 COLOR AQUA SILVER 07327.

LVT 1: BY CUADRADO ALFOMBRAS. MANUFACTURER SHAW CONTRACT GROUPSTYLE BRANDING OUT 4256V COLOR ZION OAK 56103.

LVT 2: BY CUADRADO ALFOMBRAS. MANUFACTURER SHAW CONTRACT GROUPSTYLE PIGMENT DIRECT GLUE 0503V COLOR CHARCOAL 85595

LVT 3: BY CUADRADO ALFOMBRAS. MANUFACTURER SHAW CONTRACT GROUPSTYLE PIGMENT DIRECT GLUE 0503V COLOR GREY 85530

BASES:

WB1: WALLBASE BURKBASE TYPE TP4" COLOR BLACK.

PAINTS:

IP1: SHERWIN–WILLIAMS, COLOR SW 6254 LAZY GRAY SATIN/EG–SHEL FINISH.
IP2: ACRYLIC LATEX ENAMEL PAINT W/ FLAT FINISH

CEILINGS:

2'X2'X3/4"ACOUSTICAL CEILING TILE W/15/16" HOT DIPPED GALV. GRID EQ. TO SIMILAR

DOOR HARDWARE SCHEDULE

SCHEDULE OF FINISHES

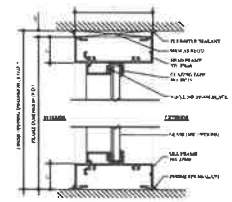
RM	FLOORS	BASE	WALLS	CEILINGS	* REMARKS
					1. CONTRACTOR SHALL SUBMIT SAMPLES OF MATERIALS FOR ARCHITECT APPROVAL

DOOR SCHEDULE

MARK	SIZE WIDTH	SIZE HEIGHT	REQ.	TYPE.	REMARKS
1	3'–0"	7'–6"	27	III	
2	6'–0"	7'–6"	1	II	
3	3'–3"	7'–6"	3	I	
4	3'–0"	7'–6"	4	I	
5	3'–0"	8'–3"	7	I	
6	3'–0"	8'–6"	1	I	

WINDOW SCHEDULE

MARK	SIZE WIDTH	SIZE HEIGHT	REQ.	TYPE.	REMARKS
A	7'–9"	8'–3"	3	UNIVERSAL PICTURE WINDOW [illegible]	
B	8'–5"	8'–6"	1	UNIVERSAL PICTURE WINDOW [illegible]	
C	10'–1"	4'–6"	2	UNIVERSAL PICTURE WINDOW [illegible]	
D	5'–10"	8'–5"	2	UNIVERSAL PICTURE WINDOW [illegible]	
E	10'–0"	5'–3"	2	UNIVERSAL PICTURE WINDOW [illegible]	
F	6'–6"	4'–6"	2	UNIVERSAL PICTURE WINDOW [illegible]	
G	11'–4"	8'–3"	1	UNIVERSAL PICTURE WINDOW [illegible]	
H	1'–6"	7'–9"	2	UNIVERSAL PICTURE WINDOW [illegible]	
I	8'–0"	8'–3"	2	UNIVERSAL PICTURE WINDOW [illegible]	
J	10'–10"	8'–3"	1	UNIVERSAL PICTURE WINDOW [illegible]	
K	3'–0"	3'–6"	1	UNIVERSAL PICTURE WINDOW [illegible]	
L	8'–0"	5'–0"	1	UNIVERSAL PICTURE WINDOW [illegible]	



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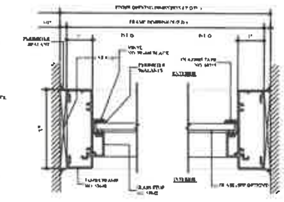

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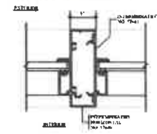

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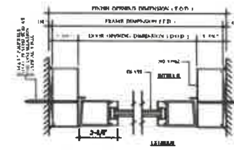

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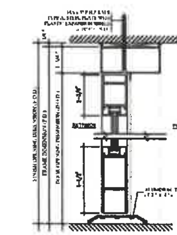

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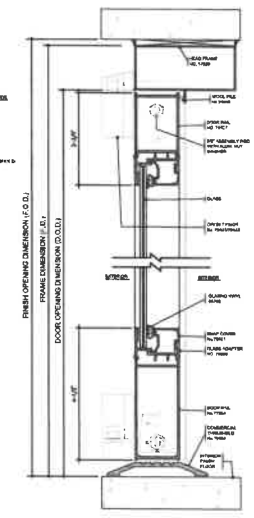

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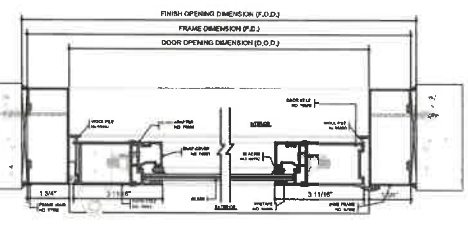
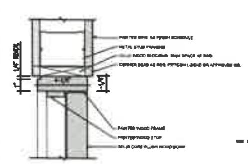
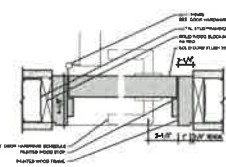


TYP. ALUMINUM FRAME SECTION H

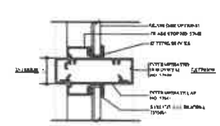
TYP. ALUMINUM FRAME SECTION F



TYP. WOOD HEAD SECTION I



TYP. WOOD JAMBS SECTION J



TYP. ALUMINUM FRAME SECTION K

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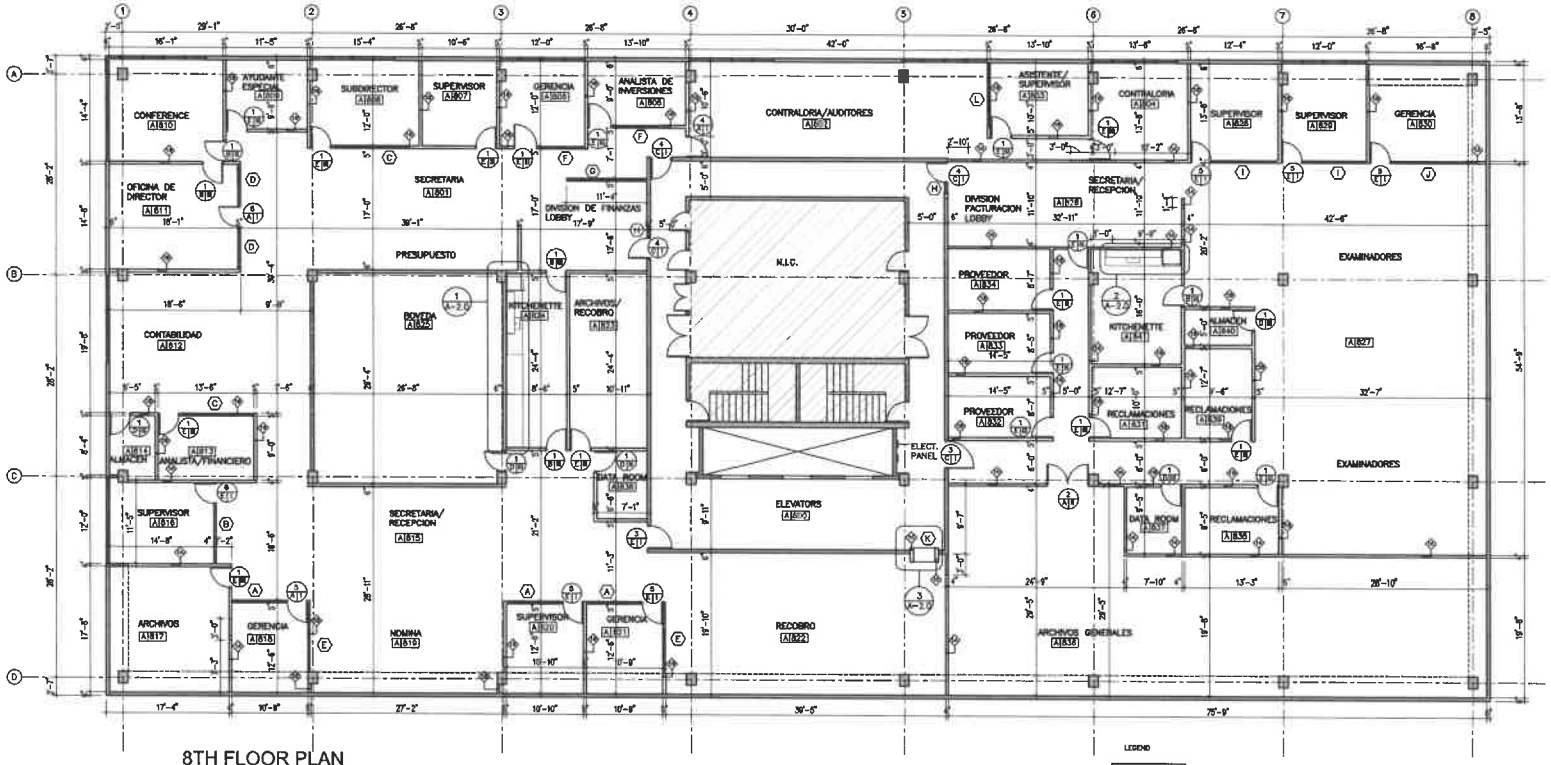
DRAWING TITLE

8TH FLOOR PLAN

SCALE 1/8"=1'-0"

A–1.0



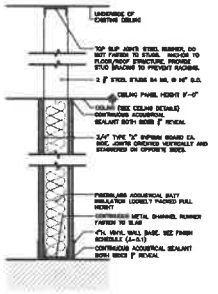
8TH FLOOR PLAN

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

LEGEND

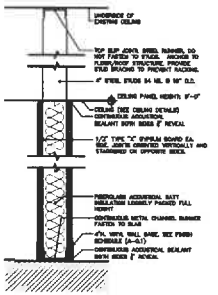
GYPSUM BOARD WALL AND PARTITIONS FOR DETAIL SEE DETAIL-1

NEW GYPSUM WALL FILL



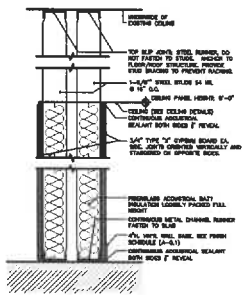
1A PARTITION WALL DETAIL

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



1B PARTITION WALL DETAIL

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



1C PARTITION WALL DETAIL

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

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DRAWING TITLE

8TH FLOOR PLAN

SCALE: AS NOTED

DRAWING No. A-1.0

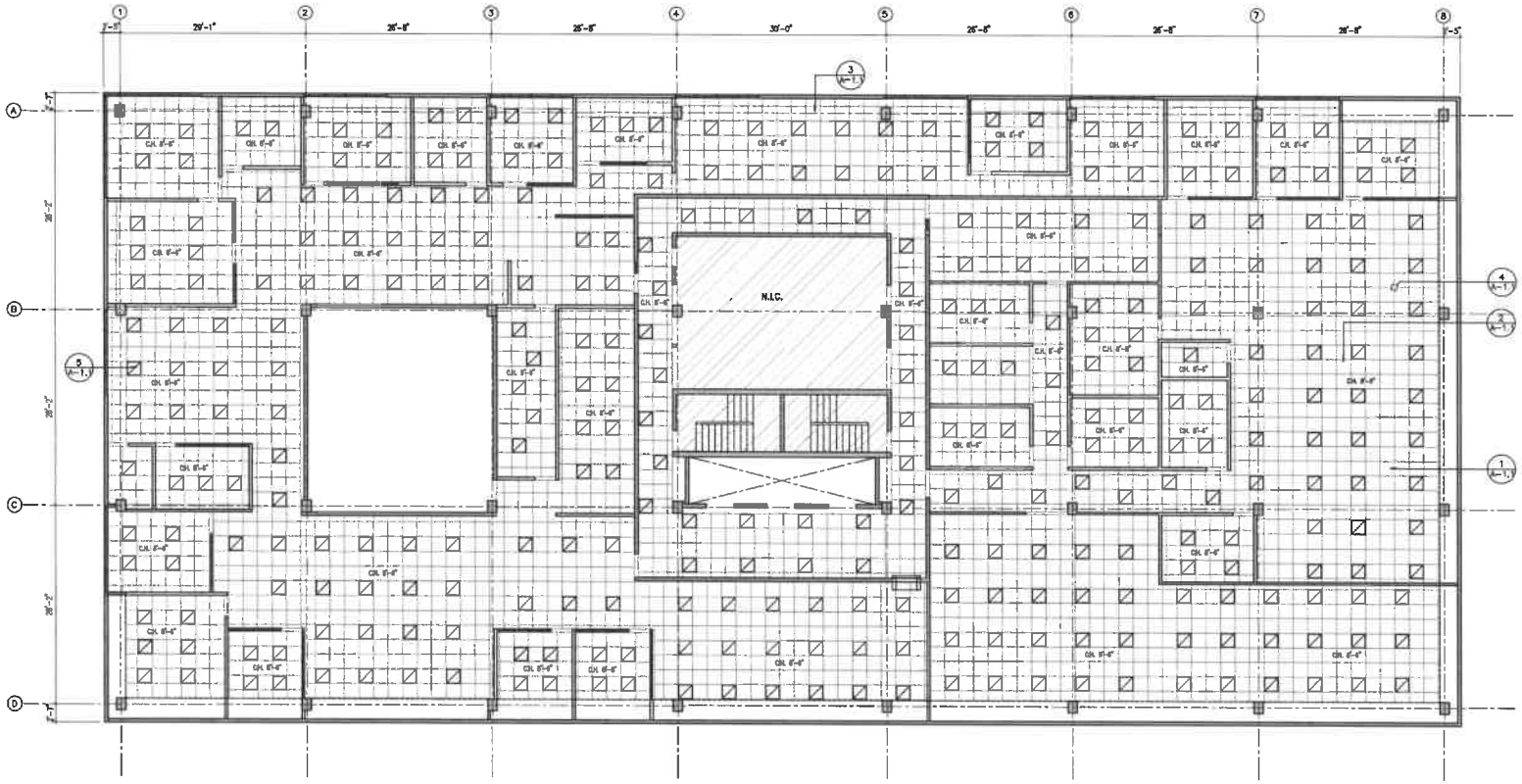
PROJECT No.

DATE

SHEET No.

YO, HERMAN R. HERNANDEZ ARQUITECTO LICENCIADO, NUMERO DE LICENCIA NUM. C3812 ETC CON SOY EL PROFESIONAL QUE DISEÑO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLIENDO TAMBIEN CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, SIN ALTERAR ESTAS DISPOSICIONES O COMPROMETERNOS PUEDEN CON JURISDICCION. RECONOZCO QUE CUALQUIER DESVIACION PUEDE O FALTE EJECUTAR ESTA REVISION SUE. NO SUPERCEDE O SE COMETE UN ERRO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, POR TERCEROS PRONAS ETC NO EXTIGUENTES NO MIEDEN REPRESAR E DE CUALQUIER ACCION JUDICIAL Y DESCIPLINARIA POR LA OCPR Y SISTEMA INFORMADES COMPETENTES, INCLUYENDO PERO NO LIMITARSE A LA TERMINACION DE LA PARTICIPACION EN LOS PROCEDIMIENTOS DE OFERTAS CON PROFESIONAL EN LA OCPR

HERMAN R. HERNANDEZ
ARQUITECTO
PUERTO RICO



PROPOSED 8TH FLOOR REFLECTED CEILING

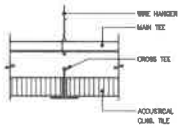
SCALE: 1/8" = 1'-0"

LIGHTING LEGEND:

- 2 X 2 RECESSED FLUORESCENT LIGHT FIXTURE
- C.H. X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR
- 2 X 2 ACOUSTICAL CEILING TILE REFER TO FINISH SCHEDULE.

NOTES:

1. GC SHALL COORDINATE FINAL LOCATIONS OF ALL LIGHT FIXTURES W/ ARCHITECT PRIOR TO INSTALLATION.
2. WHERE CEILING IS OPEN TO STRUCTURE, APPLY "KCC" K-13 SPRAY-ON ACOUSTICAL CEILING SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS. COLOR: GRAY.
3. REFER TO ELECTRICAL DWGS. FOR LIGHT FIXTURE SPECIFICATIONS.



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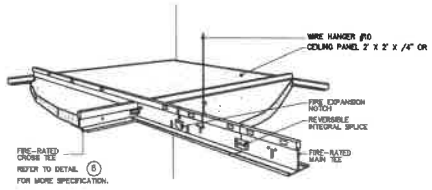
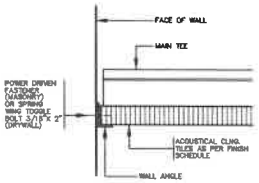


ACOUSTICAL HUNG CEILING DET. (2/A-1.1) N.T.S.



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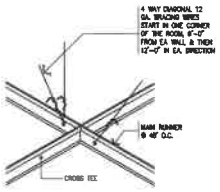
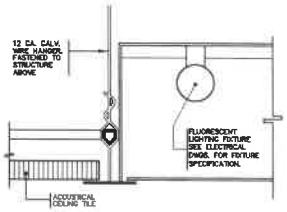


DETAIL MKD (4/A-1.1) N.T.S.



DETAIL MKD (5/A-1.1) N.T.S.

YO HERMAN P. HERNANDEZ ARQUITECTO LICENCIADO NUMERO DE LICENCIA 1647 CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO ESTOS PLANOS Y LAS ESPECIFICACIONES CUMPLIMENTARAN TAMBIEN CERTIFICO QUE DISEÑADO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS TODOS DE LAS AGENCIAS JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCION. RECONOCE O QUE CUALQUIER DISCUMPLIMIENTO A LA PRESENTACION DE LOS MENCIONADOS QUE NO HAYA PRODUCIDO SIN CONFORMIDAD POR NEGLIGENCIA O DEL POPIO MIO NUESTRO O REPRESENTADO O POR OTRA PERSONAS CON RUSDICCIONES NO ME HACEN RESPONSABLE DE CUALQUIER ACCION AJUDICIAL O DISCIPLINARIA POR LA COPA Y OTRAS AUTORIDADES COMPETENTES SOLUCIONES PERO SIN LIMITARSE A LA TERMINACION DE LA PARTE INCOMPLETA EN LAS PROVISIONADOS DE CERTIFICACION PROFESIONAL EN LA OBRA.

ABACUS

ARCHITECTURE PSC

CONSULTANT

PROJECT NAME

MPROVEMENTS ACAA BUILDING 8TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

NO.	DESCRIPTION	DATE

PO BOX 362192 SAN JUAN P.R. 00936
TEL. (787) 724-4331, FAX. (787) 977-9980
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DRAWING TITLE

8TH FLOOR
REFLECTED CEILING

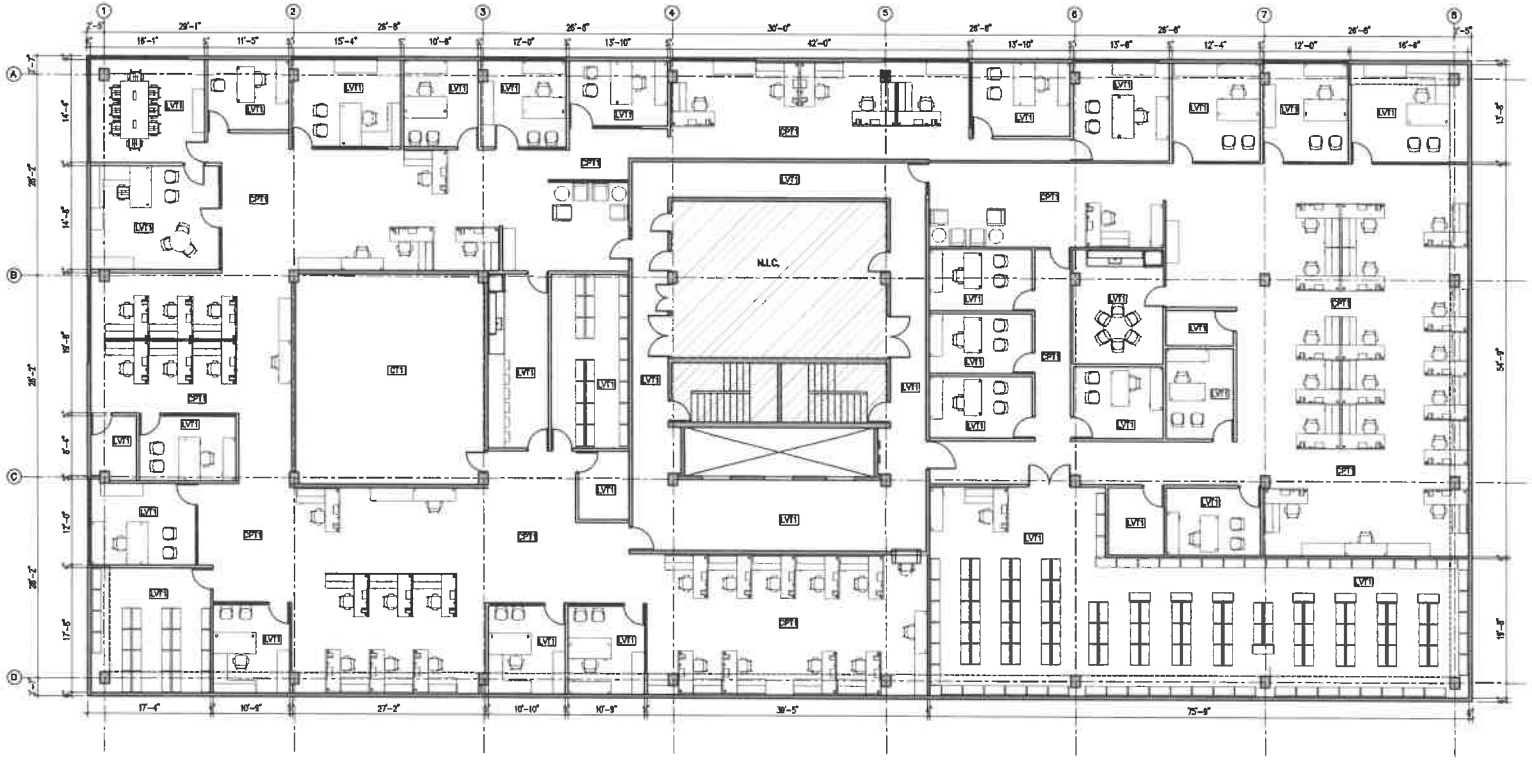
SCALE: AS NOTED

DRAWING NO.: A-1.1

PROJECT NO.

DATE

SHEET NO.



8TH FLOOR FURNITURE LAYOUT PLAN

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

NOTES:

1. OC SHALL COORDINATE WITH CLIENT FOR NEW FURNITURE BUYOUT AND INSTALLATION.

FINISH NOTES:

TRANSITION STRIPS WERE OCCURS:

800 IMPERIAL REDUCER 1/4" BY MANNINGTON COMMERCIAL.
1-1/4" TRANSITION REDUCER. FOR GLUE DOWN CARPET;1/4" UNDERCUT, CAN BE TRIMMED TO BUTT TO RESILIENT TILE.

930 SNAP-DRAGON T BY MANNINGTON COMMERCIAL
SNAP-ON T MOLDING. JOINS 1/4" OR 5/16 MATERIAL ON EACH SIDE. USE METAL TRACK ONLY.

PRILEIS METAL TRACK BY MANNINGTON COMMERCIAL
DESIGNED TO INSTALL T MOLDINGS 360, 360, 930, 935 AND 940. ALUMINUM.

DETAIL MKD. CARPET TO CERAMIC TILE

DETAIL MKD. VINYL TO CARPET TILE

YO HERMAN R HERNANDEZ ARQUITECTO (LICENCIADO), HAMENDO LA LICENCIA PARA CERTIFICAR QUE SON EL PROPIETARIO QUE DEBERÁ REGISTRAR PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS TAMBIÉN CERTIFICO QUE HE REVISADO DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO ZONAL VIGENTE Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CONDICIONES DE LAS AGENCIAS JUNTAS REGLAMENTADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN. RESPONDO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PRODUCIDO SIN CONOCIMIENTO O POR NEGLIGENCIA YO NO ASUMIRÉ MIS DEBERES COMO ARQUITECTO Y POR ESTA RAZÓN NO ASUMIRÉ NI ACEPTARÉ RESPONSABILIDAD DE CUALQUIER ACCIÓN JUDICIAL O DISCIPLINARIA POR LA SOPA O FIRMA AUTORIZADA COMPETENTE. MOLESTARÉ PERO SIN LIMITARME A LA TERMINACIÓN DE LA IMPLEMENTACIÓN EN LOS PROGRAMAS DE CERTIFICACIÓN PROFESIONAL EN LA TOPA.

HERMAN R. HERNANDEZ ARQUITECTO PUERTO RICO

ABACUS

ARCHITECTURE PSC

CONSULTANT

PROJECT NAME

IMPROVEMENTS ACAA BUILDING 8TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

No.	DESCRIPTION	DATE
1	ADDENDA	1-23-23

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DRAWING TITLE

8TH FLOOR FURNITURE LAYOUT PLAN

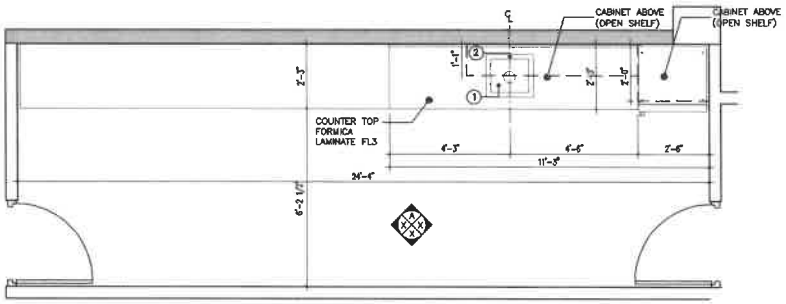
SCALE 1/8"=1'-0"

DRAWING No. A-1.2

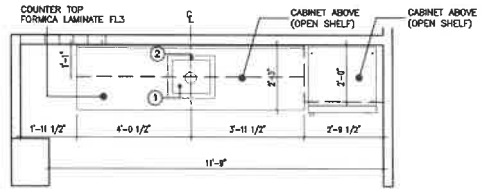
PROJECT No.

DATE

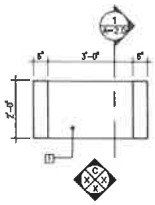
SHEET No.

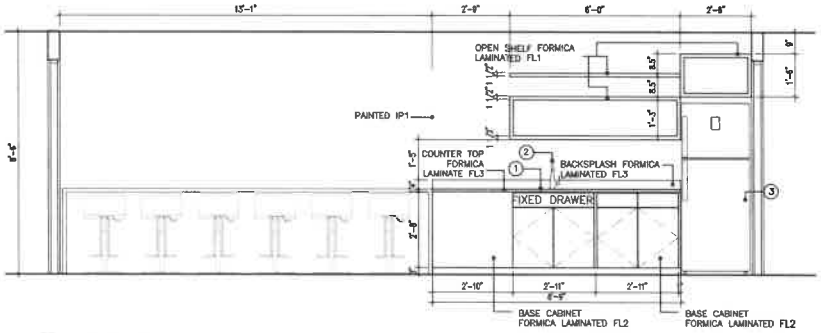


1 A-3.0 KITCHENETTE @ ROOM 824
SCALE: 1/2" = 1'-0"

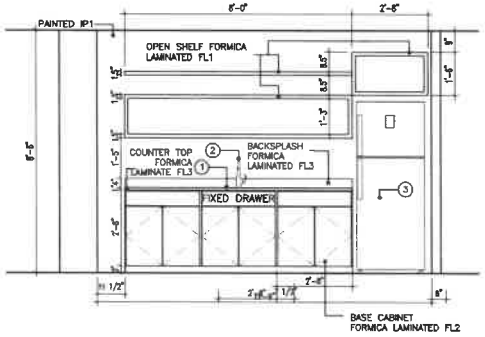


2 A-3.0 KITCHENETTE @ ROOM 841
SCALE: 1/2" = 1'-0"

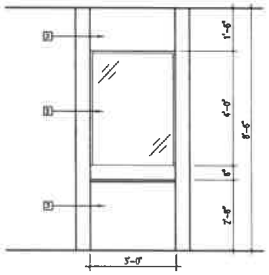




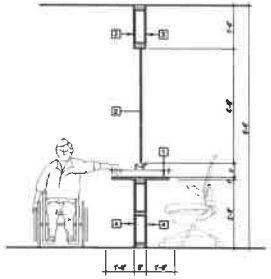
A A-2.0 ELEVATION
SCALE: 1/2" = 1'-0"



B A-2.0 ELEVATION
SCALE: 1/2" = 1'-0"



C A-2.0 ELEVATION
SCALE: 1/2" = 1'-0"



1 A-3.0 SECTION A
SCALE: 3/4" = 1'-0"

NOTES:

1. CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND SAMPLES FOR APPROVAL

2. ALL CABINETRY SHALL BE CONSTRUCTED WITH ¾" PVC PANEL AND FINISH (ALL VISIBLE SURFACES) WITH PLASTIC LAMINATE, INCLUDING INTERIOR SURFACES OF CABINET AND SHELVES INCLUDING DRAWER INTERIOR UNLESS SOMETHING ELSE IS INDICATED. COLOR AS SPECIFIED.

FINISHES:

FL1: FORMICA 8795 COLOR MATRIX BLUE SWATCH

FL2: FORMICA 927 FOLKSTONE SWATCH

FL3: FORMICA 961 FOG SWATCH

FL4: FORMICA 8862 LIVELY WALNUT

FL5: FORMICA 912 STORM SWATCH

EQUIPMENT AND ACCESORIES SCHEDULE

MARK	DESCRIPTION	MODEL
1	SINK	TO BE FURNISHED BY OWNER
2	SINK FAUCET	TO BE FURNISHED BY OWNER
3	REFRIGERATOR	TO BE FURNISHED BY OWNER
4	WINE COOLER	TO BE FURNISHED BY OWNER
5	TV	TO BE FURNISHED BY OWNER

LEGEND:

1 PLASTIC LAMINATE FL5

2 ¼" CLEAR SECURITY GLASS.SEE DOOR & WINDOW SCHEDULE FOR MORE INFO.

3 TWO COATS OF INTERIOR PAINT OVER PRIMER (IP1)

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REVISIONS

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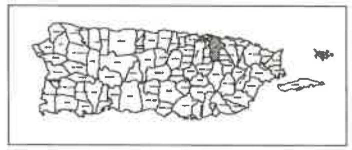
DRAWING TITLE
8TH FLOOR COUNTER AND CABINET DETAILS

SCALE 1/2"=1'-0"
PROJECT No.
DATE
SHEET No. A-2.0

IMPROVEMENTS ACAA BUILDING 10TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

LOCATION PLAN



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⚠	DP-1.0	10TH FLOOR EXISTING AND DEMOLITION PLAN
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ABACUS

ARCHITECTURE PSC

CONSULTANT

PROJECT NAME

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DRAWING TITLE

TITLE AND INDEX SHEET

HERNAN R. HERNANDEZ
PUERTO RICO

SCALE	DRAWING No.
PROJECT No.	T-1.0
DATE JAN 2021	SHEET No.

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO ACTUAL CONSTRUCTION OR INSTALLATION. IN CASE OF ANY DISCREPANCY WITH THE CONSTRUCTION DOCUMENTS, OR DOUBTS AS TO THE INTERPRETATION OF SAID DOCUMENTS, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED AND CONSULTED FOR CLARIFICATION PRIOR TO CONSTRUCTION OR INSTALLATION.
2. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES INFLICTED TO THE OWNER'S PROPERTY OR OTHER AREAS DURING THE EXECUTION OF THE WORK.
3. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT ALL SHOP DRAWINGS FOR REVIEW PRIOR TO COMMENCEMENT OF THE WORK.
4. ALL MATERIALS AND CONSTRUCTION METHODS USED MUST COMPLY WITH ALL GOVERNING REGULATIONS AS SET FORTH BY THE PUERTO RICO PLANNING BOARD, AND ALL OTHER CONCERNED REGULATORY AGENCIES.
5. NEW CONSTRUCTION INCLUDING CONCRETE, MASONRY, PLASTER, DOORS, FRAMES, AND MISCELLANEOUS UNFINISHED METALS (OTHER THAN STAINLESS STEEL) SHALL BE PAINTED UNLESS OTHERWISE INDICATED.
6. THE CONSTRUCTION SITE SHALL BE MAINTAINED REASONABLY NEAT AND FREE FROM EXCESSIVE ACCUMULATION OF TRASH AND DEBRIS. ALL TRASH, DEBRIS, RUBBISH, ETC SHALL BE PROMPTLY REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
7. ALL STEEL CONSTRUCTION ELEMENTS ARE TO BE PRIMED WITH GALVANIZED METAL PRIMER AND PAINTED WITH AT LEAST TWO COATS OF ACRYLIC URETHANE ENAMEL. COLORS WILL BE DETERMINED BY ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.
8. ALL INTERIOR WALLS TO RECEIVE VINYL ACRYLIC LATEX PAINT COLORS WILL BE DETERMINED BY ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.
9. ALL EXTERIOR CONCRETE AND MASONRY TO RECEIVE ACRYLIC LATEX PAINT BY MANUFACTURER. COLORS WILL BE DETERMINED BY ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.
10. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED INSURANCE CERTIFICATES WITH THE DEPARTMENT OF BUILDINGS, AND OBTAIN ALL REQUIRED PERMITS.
11. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT REQUIRED FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED IF THEY WERE INDICATED IN THE DRAWINGS.
12. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH THE STIPULATIONS OF LOCAL AUTHORITIES, BUILDING MANAGEMENT OR BOARD OF DIRECTORS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
14. THE CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER TRADES: PLAMBING ELECTRICAL,ETC.
15. PLUMBING WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN THROUGH THE DEPARTMENT OF BUILDINGS ALL REQUIRED PERMITS, INSPECTIONS, AND REQUIRED SIGN OFFS.
16. ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN THROUGH THE BUREAU ELECTRICAL CONTROL ALL REQUIRED PERMITS, INSPECTIONS AND REQUIRE DESIGNS OFFS.
17. THE CONTRACTOR SHALL DO ALL CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.

Abbreviations

ABC	above counter
ABV	above
A/C	air conditioning
ACT	acoustical tile
ACV	air conditioning and ventilation
ADJ	adjacent
ADJT	adjustable
AFF	above finished floor
AGG	aggregate
BD	board
BLDG	building
BLK	block
BM	bench mark
BO	by others
BOB	bottom of beam
CAB	cabinet
CPT	carpet tile
CB	catch basin
CEM	cement
CER	ceramic
CHT	ceiling height
CIR	circle
CL	center line
CLG	ceiling
CO	clean out
COL	column
CONC	concrete
CONT	continuous
CT	ceramic tile
CW	cold water
DBL	double
DEM	demolish/demolition
DET	detail
DF	drinking fountain
DIA	diameter
DIM	dimension
DN	down
DR	door
DWG	drawing
EC	electrical closet
E.J.	expansion joint
ELEC	electric (al)
EMER	emergency
ENC	enclosure
EQ	equal
EST	estimate
ETC	etceteras
EXP	exposed
EXT	exterior
FAI	fresh air intake
FBO	furnished by others
FD	floor drain
FE	fire extinguisher
FFE	finished floor elevation
FFL	finished floor line
FH	full height
FIN	finish/finished
FL	floor
FLG	flashing
GA	gauge
GALV	galvanized
GC	general contractor
GL	glass
GRD	ground
GYP	gypsum
HB	hose bibb
HC	hollow core
HDC	handicapped
HDW	hardware
HM	hollow metal
HOR	horizontal
HT	height
HW	hot water
ID	inside
INT	interior
IP	interior paint
INV	invert
JAN	janitor
JC	janitors closet
KIT	kitchen
KO	knockout
L	length
LAM	laminated
LAV	lavatory
LH	left hand
LVR	louver
M	meter (s)
MAINT	maintenance
MAS	masonry
MAX	maximum
MECH	mechanical
MFG	manufacturer
MH	manhole
MIN	minimum
MISC	miscellaneous
MO	masonry opening
MTD	mounted
MTL	material
N	north
NAT	natural
NO	nominal
NTS	not to scale
N.I.C.	not included in contract
OA	overall
OC	on center
OD	outside diameter
OH	overhead
OPP	opposite
PL	plate
PL	property line
PLAS	plaster
P T	pressure treated
QT	quarry tile
QTY	quantity
R	riser
RAD	radius
REF	reference
REL	relocated
REV	revision (s)
RH	right of way
RM	room
ROW	right of way
R.L.	rain leader
S	south
SHT	sheet
SIM	similar
SPCP	smooth portland cement plaster
SST	stainless steel
STA	station
STD	standard
STL	steel
STOR	storage
SYM	symmetry
T	toilet
T	tread
TEL	telephone
THK	thick/thickness
T.O.	trimmed opening
TOW	top of wall
TYP	typical
UNF	unfinished
UR	urinal
U.O.N.	unless otherwise noted
VERT	vertical
VJ	v-joint (ed)
V.I.F.	verify in field
VT	vinyl tile
W	west
W	width
WB	wall base
WC	water closet
WD	wood
WH	wall hung
WIN	window
WO	without
YD	yard drain

ARCHITECTURAL SYMBOLS:

- NEW STRUCTURAL WALLS
- NEW CONCRETE BLOCK WALL THICKNESS AS PER CONSTRUCTION PLAN.
- NEW GYPSUM BOARD WALL THICKNESS AS PER CONSTRUCTION PLAN.
- AXIS LINES
- MAIN FLOOR ELEVATION
- CHANGE IN FLOOR ELEVATION
- CHANGE IN FLOOR FINISH
- SLOPE
- NOTES/REFERENCE

REFERENCE SYMBOLS:

- B.S. — LETTER OR NUMERAL DESIGNATION — BUILDING SECTION — SHEET WHERE FOUND
- W.S. — NUMERAL DESIGNATION — WALL SECTION — SHEET WHERE FOUND
- ELEV. — NUMERAL DESIGNATION — EXTERIOR ELEVATIONS — SHEET WHERE FOUND
- DETAIL NUMERAL DESIGNATION — DETAIL — SHEET WHERE FOUND
- LETTER DESIGNATION — INTERIOR ELEVATION — SHEET WHERE FOUND
- FINISH CODE — ROOM NUMBER/FINISH CODE — ROOM NUMBER
- HARDWARE — NUMBER DESIGNATION — DOORS — DOOR TYPE
- WINDOWS — LETTER DESIGNATION

ABACUS

ARCHITECTURE PSC

CONSULTANT

PROJECT NAME

IMPROVEMENTS ACAA BUILDING 10TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

No.	DESCRIPTION	DATE
1	ADDENDA	1-23-23

PO BOX 362192 SAN JUAN P.R. 00936
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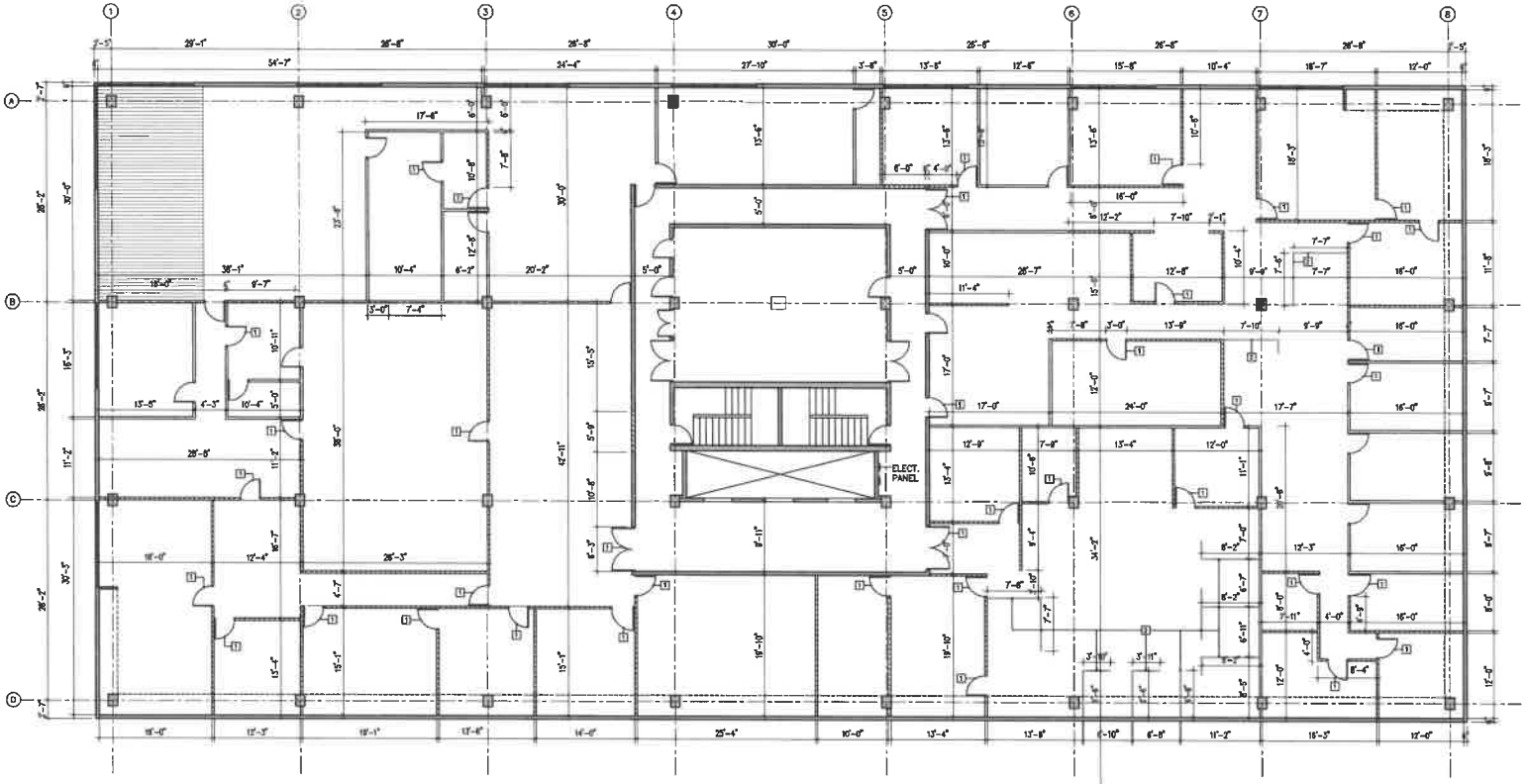
DRAWING TITLE

GENERAL NOTES

G-1.0



10TH FLOOR EXISTING AND DEMOLITION PLAN

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

DEMOLITION NOTES

1. THE CONTRACTOR, BEFORE THE START OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING AT THE PROJECT SITE AND NOTIFY TO THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND THE DOCUMENTS OF THE CONTRACT THAT COULD AFFECT THE PROGRAM AND/OR THE ADECUATE PERFORMANCE OF DEMOLITION WORK AND CONSTRUCTION.

2. THE CONTRACTOR SHALL DISPOSE OF ALL EXISTING DEBRIS AND WASTE MATERIALS FROM OFF-SITE DEMOLITION WORK AS INSTRUCTED BY THE OWNER.

3. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE CAUSED TO THE OWNER'S PROPERTY OR OTHER AREAS REMAINING DURING THE DEMOLITION AND CONSTRUCTION PHASES. DAMAGED ITEMS WILL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

4. DEMOLITION AND REMOVAL SHALL BE CARRIED OUT IN AN ORGANISED MANNER AND THE RELEASE OF DUST AND DEBRIS INTO THE AIR SHALL BE AVOIDED.

5. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE WITH THE OWNER ALL WORK TO BE PERFORMED IN THE AREAS IN CURRENT USE, SO AS NOT TO INTERFERE WITH NORMAL DAILY OPERATIONS.

DEMOLITION LEGEND

- EXISTING AREA TO BE DEMOLISHED
- GYPSUM WALL TO BE DEMOLISHED
- EXISTING GYPSUM WALL TO REMAIN
- 1 DOOR TO BE REMOVED AND DISPOSED
- 2 LOW PARTITION WALL TO BE REMOVED AND DISPOSED

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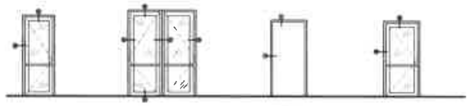
DRAWING TITLE

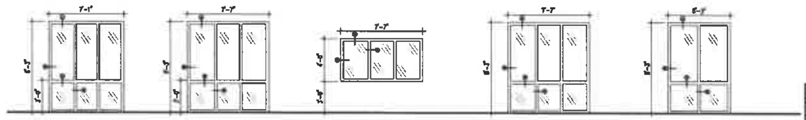
10TH FLOOR EXISTING & DEMOLITION PLAN

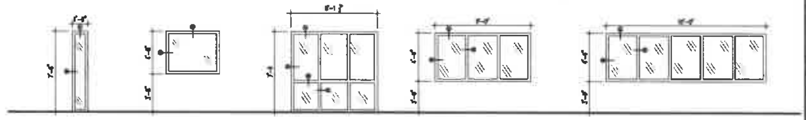
SCALE 1/8"=1'-0"

DRAWING NO. DP-1.0



WINDOWS





FLOOR TYPES:

CPT 1: BY CUADRADO ALFOMBRAS. MANUFACTURER SHAW CONTRACT GROUP STYLE CHROMATONE TILE 5T444 COLOR AQUA SILVER 07327.

LVT 1: BY CUADRADO ALFOMBRAS. MANUFACTURER SHAW CONTRACT GROUPSTYLE BRANDING OUT 4256V COLOR ZION OAK 56103.

LVT 2: BY CUADRADO ALFOMBRAS. MANUFACTURER SHAW CONTRACT GROUPSTYLE PIGMENT DIRECT GLUE 0503V COLOR CHARCOAL 65595

LVT 3: BY CUADRADO ALFOMBRAS. MANUFACTURER SHAW CONTRACT GROUPSTYLE PIGMENT DIRECT GLUE 0503V COLOR GREY 65530

BASES:

WB1: WALLBASE BURKBASE TYPE TP4" COLOR BLACK.

PAINTS:

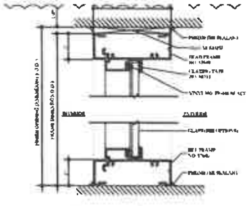
IP1: SHERWIN–WILLIAMS, COLOR SW 6254 LAZY GRAY SATIN/EG–SHEL FINISH.
IP2: ACRYLIC LATEX ENAMEL PAINT W/ FLAT FINISH

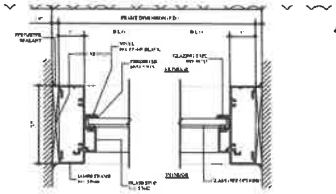
CEILINGS:

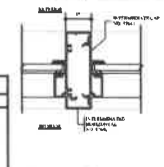
2'X2'X3/4"ACOUSTICAL CEILING TILE W/15/16" HOT DIPPED GALV. GRID EQ. TO SIMILAR

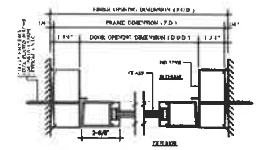
DOOR HARDWARE SCHEDULE

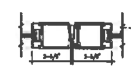
TYPE	HARDWARE SET	TYPE	HARDWARE SET
[illegible]	[illegible]	[illegible]	[illegible]


TYP. ALUMINUM FRAME SECTION A


TYP. ALUMINUM FRAME SECTION B


TYP. ALUMINUM FRAME SECTION C


TYP. ALUMINUM FRAME SECTION E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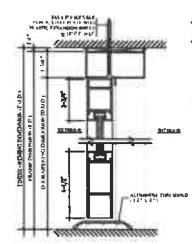
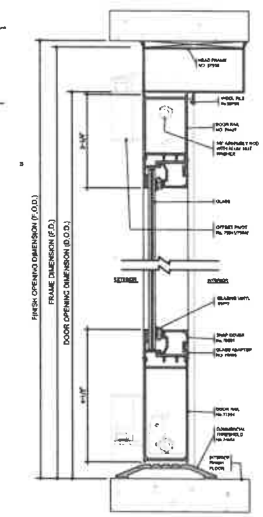
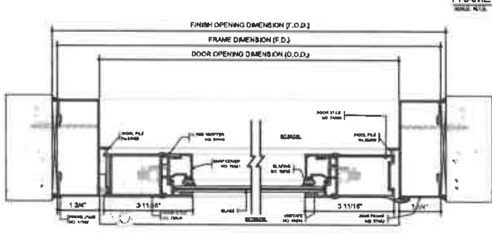
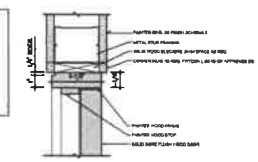

TYP. ALUMINUM FRAME SECTION D

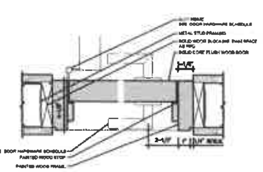


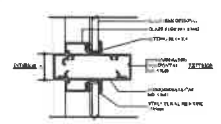
TYP. ALUMINUM FRAME SECTION G



TYP. ALUMINUM FRAME SECTION H


TYP. WOOD HEAD SECTION I


TYP. WOOD JAMBS SECTION J


TYP. ALUMINUM FRAME SECTION K

SCHEDULE OF FINISHES

RMS	FLOORS	BASE	WALLS	CEILINGS	* REMARKS
	LVT BY CUADRADO ALFOMBRAS OVER SMOOTH CEMENT FINISH; VT2 BY CUADRADO ALFOMBRAS OVER SMOOTH CEMENT FINISH; VT3 BY CUADRADO ALFOMBRAS OVER SMOOTH CEMENT FINISH; CPT1 BY CUADRADO ALFOMBRAS OVER SMOOTH CEMENT FINISH; CERAMIC TILE OVER SMOOTH CEMENT FINISH	TB BY CUADRADO ALFOMBRAS; 4" H. CERAMIC TILE	[illegible]; IP1 BY SHERWIN–WILLIAMS	[illegible] CEILING TILE W/15/16" HOT DIPPED [illegible] EQ. TO SIMILAR; IP2 ACRYLIC LATEX ENAMEL PAINT W/ FLAT FINISH	1. CONTRACTOR SHALL SUBMIT SAMPLES OF MATERIALS FOR ARCHITECT APPROVAL.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	INTEGRATED F[illegible], AS PER CONSTRUCTION DETAILS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	INTEGRATED F[illegible], AS PER CONSTRUCTION DETAILS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	INTEGRATED F[illegible], AS PER CONSTRUCTION DETAILS

DOOR SCHEDULE

MARK	WIDTH	HEIGHT	REQ.	TYPE.	REMARKS
1	3'–0"	7'–8"	39	[illegible]	
2	6'–0"	8'–0"	2	II	
3	3'–0"	7'–0"	4	III	
4	3'–0"	7'–8"	1	I	
5	3'–0"	8'–3"	8	IV	

WINDOW SCHEDULE

MARK	WIDTH	HEIGHT	REQ.	TYPE.	REMARKS
A	7'–1"	8'–3"	1	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	
B	7'–7"	8'–3"	2	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	
C	7'–7"	4'–0"	3	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	
D	7'–7"	8'–3"	1	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	
E	5'–2"	8'–8"	2	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	
F	1'–6"	7'–8"	2	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	
G	8'–0"	4'–0"	1	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	
H	8'–1 1/2"	7'–6"	1	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	
I	8'–0"	4'–6"	1	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	
J	15'–0"	4'–6"	1	UNIVERSAL PICTURE WINDOW 1"X2" FRAMING SYSTEM [illegible] ALUMINUM EXTENSION AND 1/4" STANDARD CLEAR GLASS FRAME COLOR TO BE SELECTED BY OWNER	

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PROJECT NAME

IMPROVEMENTS ACAA BUILDING 10TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

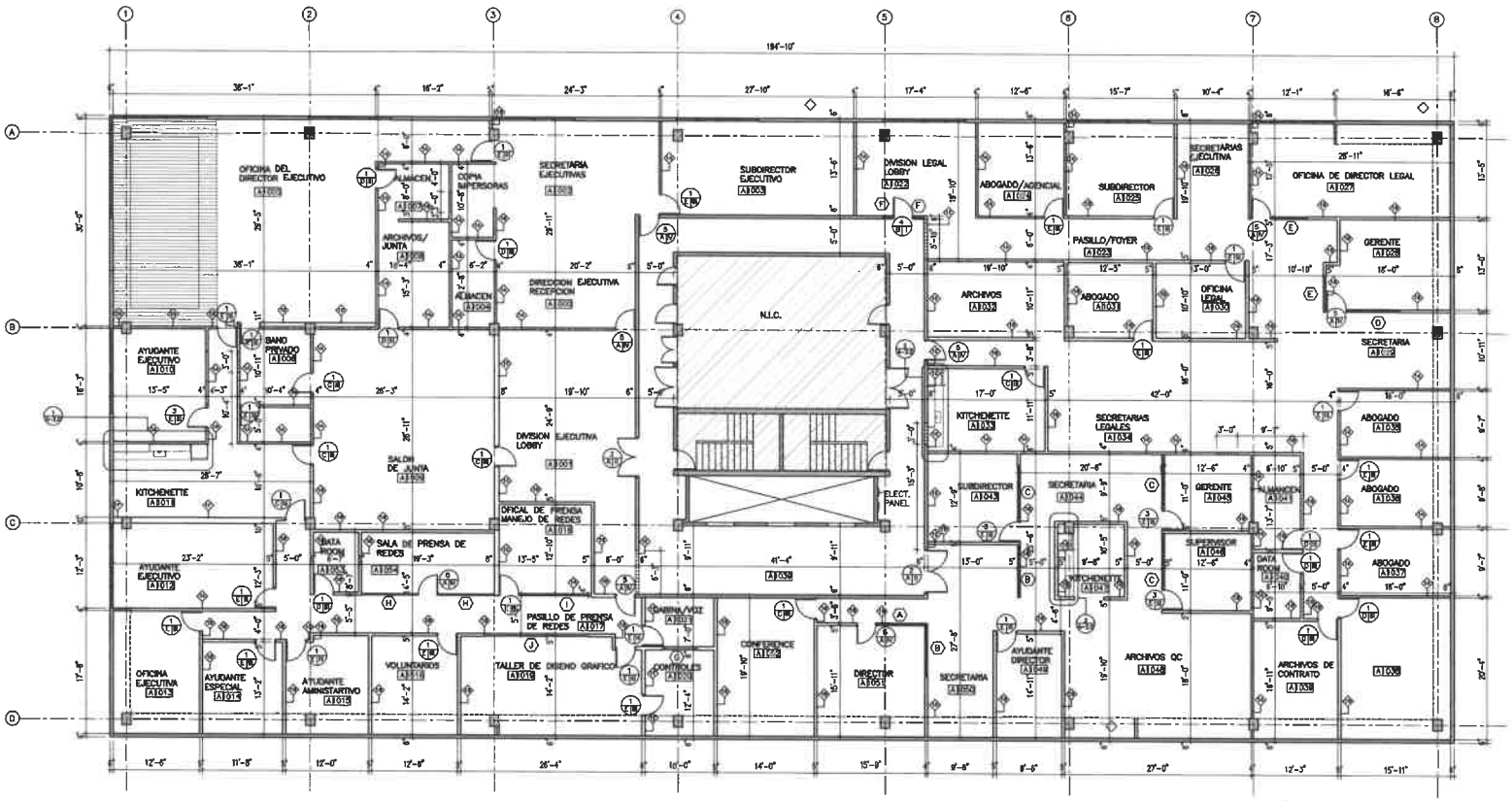
No.	DESCRIPTION	DATE
1	ADDENDA	1–23–23

DRAWING TITLE

10TH FLOOR DOOR, WINDOW & FINISH SCHEDULE

SCALE: AS NOTED

DRAWING No. A–0.1



10TH FLOOR PLAN

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

LEGEND

GYPSUM BOARD WALL AND PARTITIONS FOR DETAIL SEE DETAIL-1

NEW GYPSUM WALL FILL

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MPROVEMENTS ACAA BUILDING 10TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
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DRAWING TITLE

10TH FLOOR PLAN

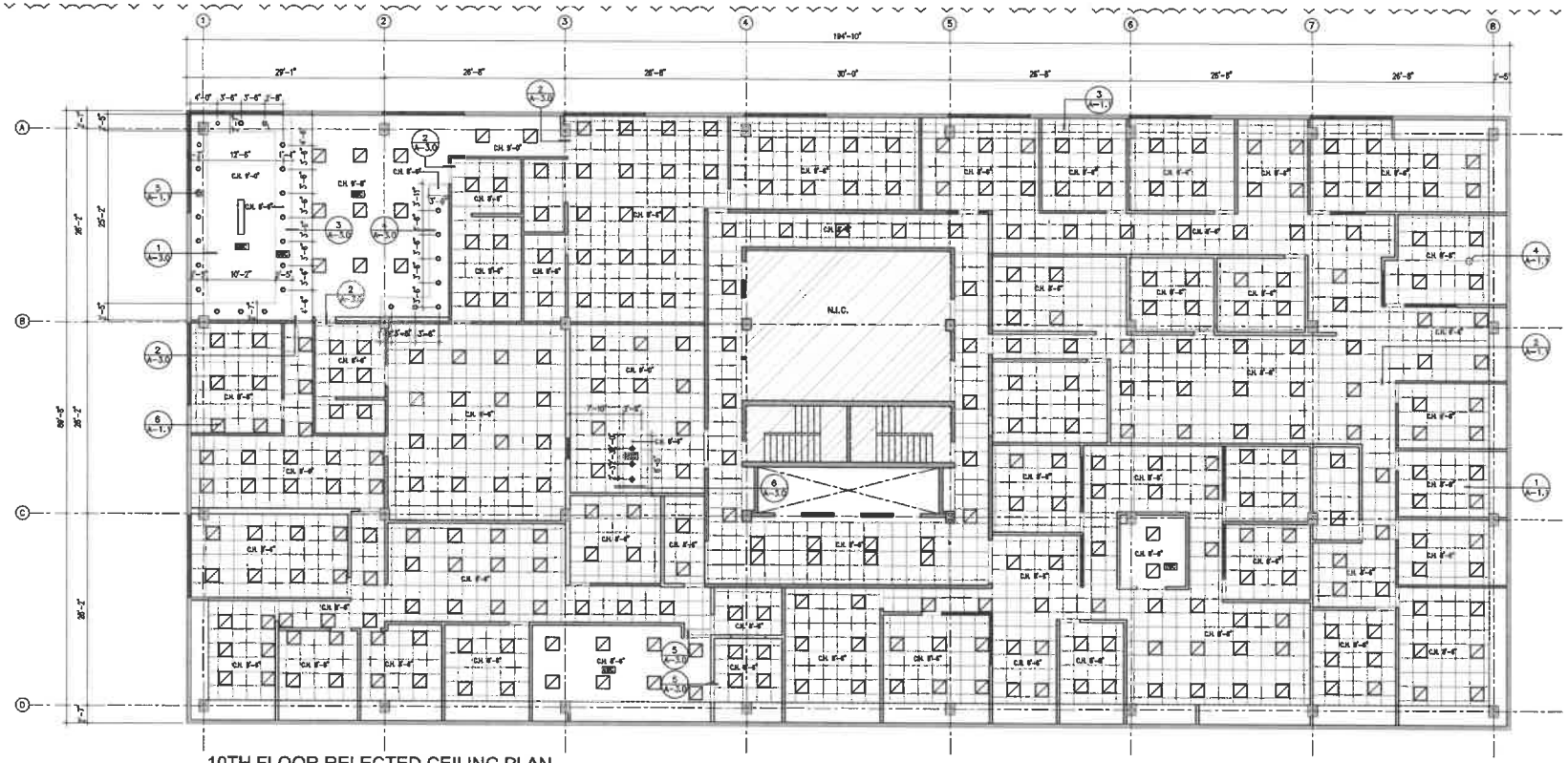
SCALE 1/8"=1'-0"

PROJECT No.

DATE

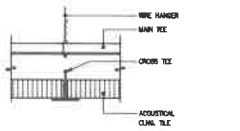
DRAWING No. A-1.0

SHEET No.

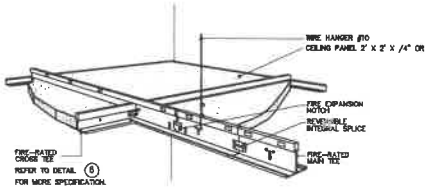


10TH FLOOR RELECTED CEILING PLAN

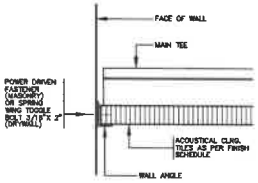
SCALE: 1/8" = 1'-0"



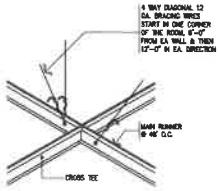
DETAIL MKD (1/A-1.1) N.T.S.



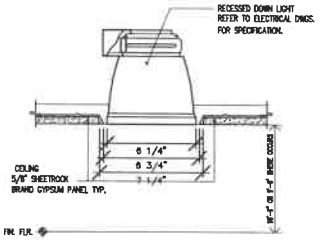
ACOUSTICAL HUNG CEILING DET. (2/A-1.1) N.T.S.



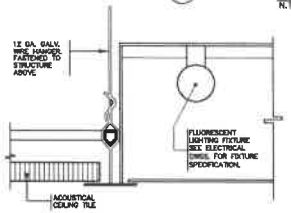
DETAIL MKD (3/A-1.1) N.T.S.



DETAIL MKD (4/A-1.1) N.T.S.



DETAIL MKD (5/A-1.1) N.T.S.



DETAIL MKD (6/A-1.1) N.T.S.

LEGEND:

- 2'-0" X 2'-0" RECESSED FLUORESCENT LIGHT FIXTURE AS PER ELECTRICAL
- C.H. X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR
- 2'-0" X 2'-0" ACOUSTICAL CEILING TILE REFER TO FINISH SCHEDULE.
- RECESSED DOWNLIGHT AS PER ELECTRICAL
- GYPSUM BOARD CEILING PANEL PAINTED (GBC) AS FINISH SCHEDULE
- PENDANT LIGHT N.I.C

NOTES:

1. GC SHALL COORDINATE FINAL LOCATIONS OF ALL LIGHT FIXTURES W/ ARCHITECT PRIOR TO INSTALLATION.
2. WHERE CEILING IS OPEN TO STRUCTURE, APPLY "ECC" K-13 SPRAY-ON ACOUSTICAL CEILING SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS. COLOR: GRAY.
3. REFER TO ELECTRICAL DWGS. FOR LIGHT FIXTURE SPECIFICATIONS.

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DRAWING TITLE

10TH FLOOR REFLECTED CEILING PLAN

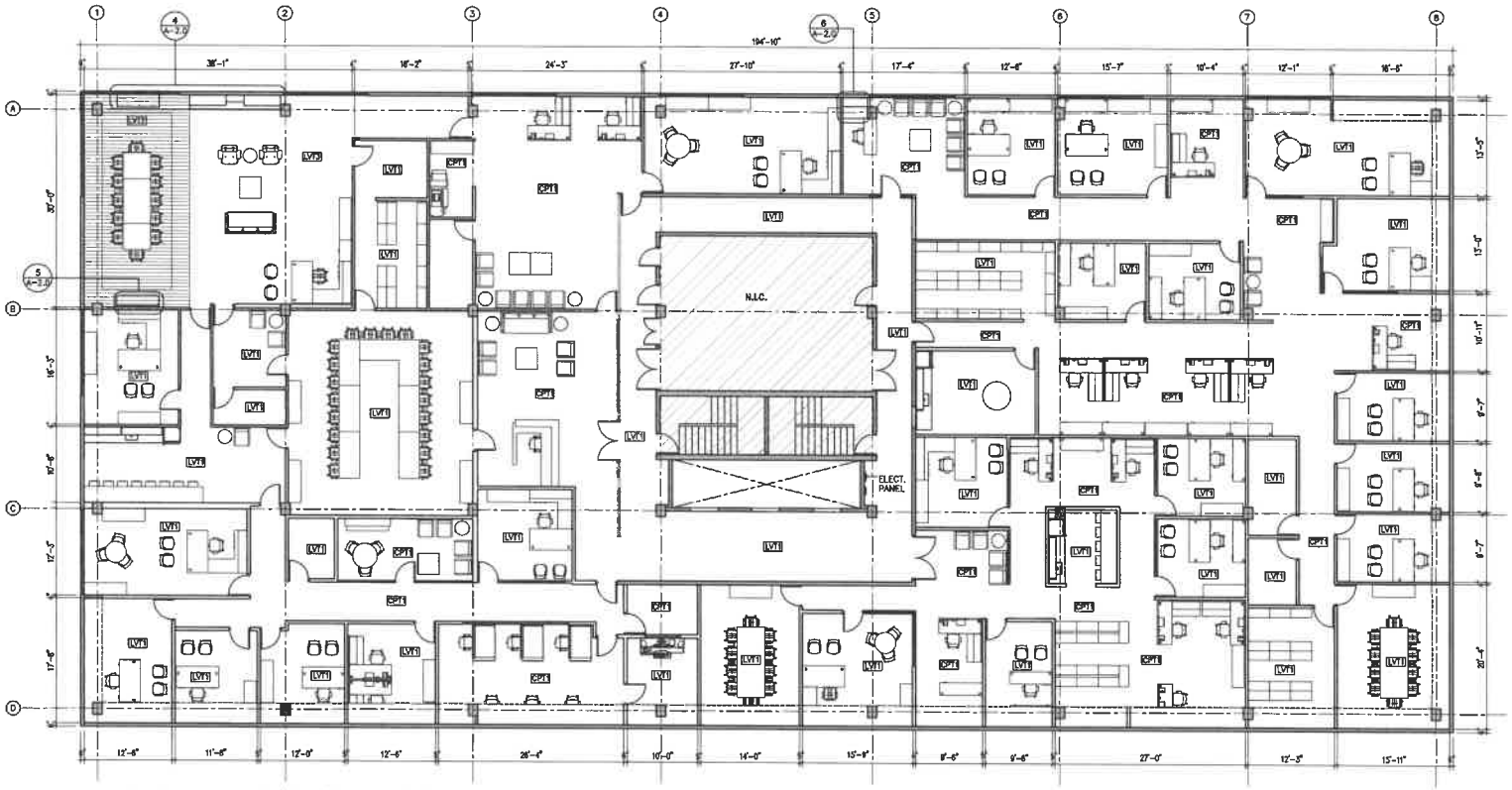
SCALE: AS NOTED

DRAWING No. A-1.1

PROJECT No.

DATE

SHEET No.



10TH FLOOR FURNITURE LAYOUT PLAN

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

NOTES:

1. BC SHALL COORDINATE WITH CLIENT FOR NEW FURNITURE BLYOUT AND INSTALLATION.

FINISH NOTES:

TRANSITION STRIPS WERE OCCURS

800 IMPERIAL REDUCER 1/4" BY MANNINGTON COMMERCIAL
1-1/4" TRANSITION REDUCER, FOR GLUE DOWN CARPET(1/4" UNDERCUT. CAN BE TRIMMED TO BUTT TO RESILIENT TILE.

830 SNAP-DRAGON T BY MANNINGTON COMMERCIAL
SNAP-IN T MOLDING. JOINS 1/4" OR 6/10 MATERIAL ON EACH SIDE. USE METAL TRACK ONLY.

PINLESS METAL TRACK BY MANNINGTON COMMERCIAL
DESIGNED TO INSTALL T MOLDINGS 360, 365, 830, 835 AND 940. ALUMINUM.

DETAIL MKD. CARPET TO CERAMIC TILE

DETAIL MKD. VINYL TO CARPET TILE

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No.	DESCRIPTION	DATE
1	ADDENDA	1-23-25

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DRAWING TITLE

10TH FLOOR FURNITURE LAYOUT PLAN

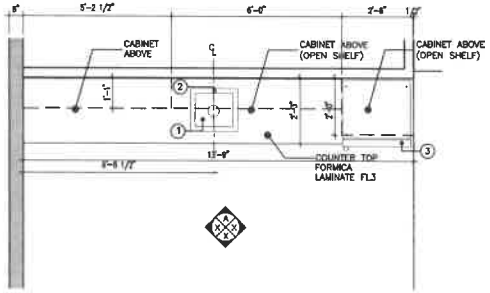
SCALE: AS NOTED

PROJECT NO.

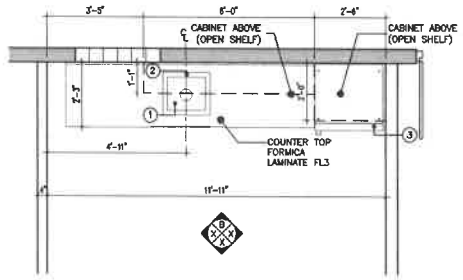
DATE

DRAWING NO. A-1.2

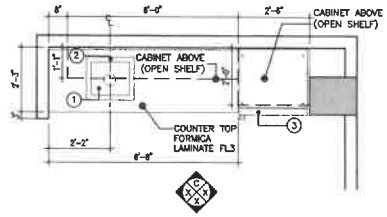
SHEET NO.



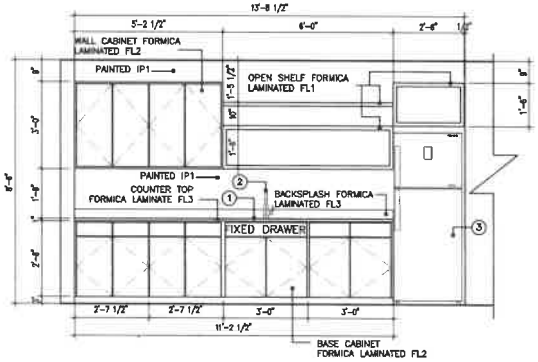
1 A-2.0 KITCHENETTE @ ROOM 1011
SCALE: 1/2" = 1'-0"



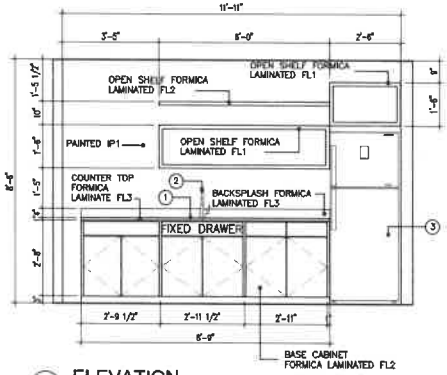
2 A-2.0 KITCHENETTE @ ROOM 1033
SCALE: 1/2" = 1'-0"



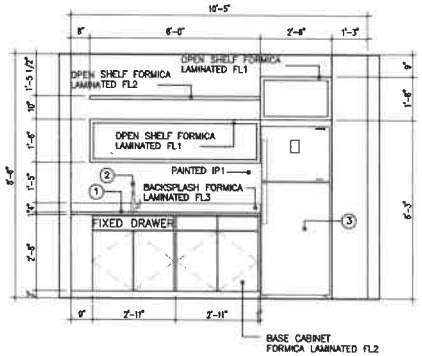
3 A-2.0 KITCHENETTE @ ROOM 1047
SCALE: 1/2" = 1'-0"



A A-2.0 ELEVATION
SCALE: 1/2" = 1'-0"



B A-2.0 ELEVATION
SCALE: 1/2" = 1'-0"



C A-2.0 ELEVATION
SCALE: 1/2" = 1'-0"

NOTES:

1. CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND SAMPLES FOR APPROVAL.

2. ALL CABINETRY SHALL BE CONSTRUCTED WITH ¾" PVC PANEL AND FINISH (ALL VISIBLE SURFACES) WITH PLASTIC LAMINATE, INCLUDING INTERIOR SURFACES OF CABINET AND SHELVES INCLUDING DRAWER INTERIOR UNLESS SOMETHING ELSE IS INDICATED. COLOR AS SPECIFIED.

FINISHES:

FL1: FORMICA 6785 COLOR MATRIX BLUE SWATCH

FL2: FORMICA 627 FOLKSTONE SWATCH

FL3: FORMICA 841 FOG SWATCH

FL4: FORMICA 8882 LIVELY WALNUT

FL5: FORMICA 912 STORM SWATCH

EQUIPMENT AND ACCESORIES SCHEDULE

MARK	DESCRIPTION	MODEL
1	SINK	TO BE FURNISHED BY OWNER
2	SINK FAUCET	TO BE FURNISHED BY OWNER
3	REFRIGERATOR	TO BE FURNISHED BY OWNER
4	WINE COOLER	TO BE FURNISHED BY OWNER
5	TV	TO BE FURNISHED BY OWNER

ABACUS

ARCHITECTURE PSC

CONSULTANT

PROJECT NAME

IMPROVEMENTS ACAA BUILDING 10TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

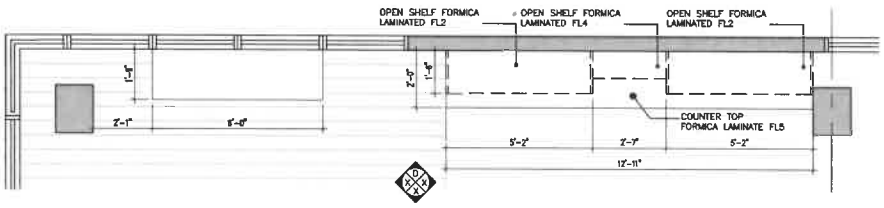
REVISIONS

No.	DESCRIPTION	DATE
1	ADDENDA	1-23-23

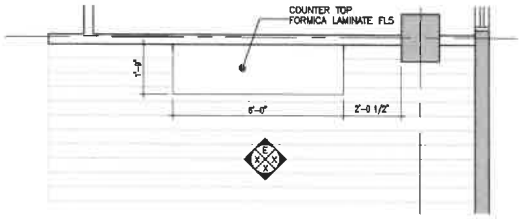
PO BOX 362192 SAN JUAN P.R. 00936
TEL. (787) 724-4331, FAX. (787) 977-1980
WWW.ABACUSARQ.COM

DRAWING TITLE
10TH FLOOR
CABINET DETAILS

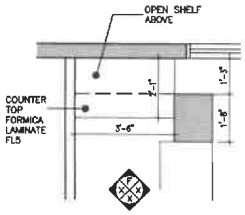
SCALE 1/2"=1'-0"
DRAWING No. A-2.0
PROJECT No.
DATE
SHEET No.



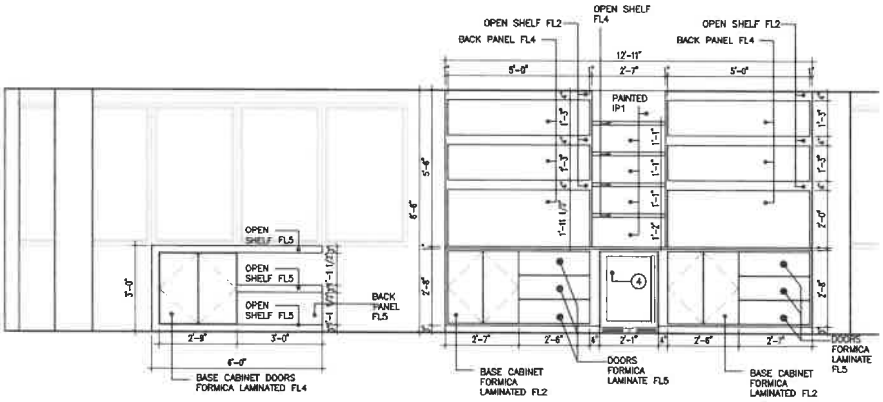
4 A-2.1 CABINETS @ ROOM 1005
SCALE: 1/2" = 1'-0"



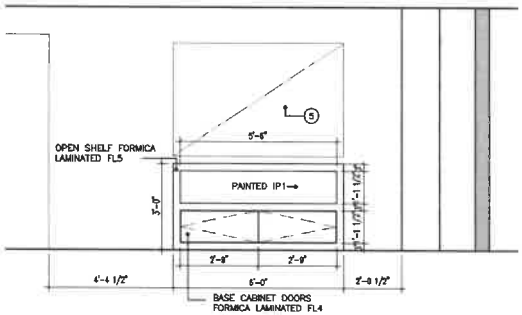
5 A-2.1 CABINET @ ROOM 1005
SCALE: 1/2" = 1'-0"



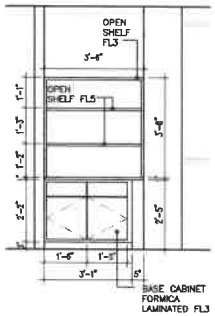
6 A-2.1 CABINET @ ROOM 1022
SCALE: 1/2" = 1'-0"



D A-2.1 ELEVATION
SCALE: 1/2" = 1'-0"



E A-2.1 ELEVATION
SCALE: 1/2" = 1'-0"



F A-2.1 ELEVATION
SCALE: 1/2" = 1'-0"

NOTES:

1. CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND SAMPLES FOR APPROVAL.

2. ALL CABINETRY SHALL BE CONSTRUCTED WITH 3/4" PVC PANEL AND FINISH (ALL VISIBLE SURFACES) WITH PLASTIC LAMINATE, INCLUDING INTERIOR SURFACES OF CABINET AND SHELVES INCLUDING DRAWER INTERIOR UNLESS SOMETHING ELSE IS INDICATED. COLOR AS SPECIFIED.

FINISHES:

FL1: FORMICA 8786 COLOR MATRIX BLUE SWATCH

FL2: FORMICA 927 FOLKSTONE SWATCH

FL3: FORMICA 961 FOG SWATCH

FL4: FORMICA 8882 LIVELY WALNUT

FL5: FORMICA 912 STORM SWATCH

EQUIPMENT AND ACCESORIES SCHEDULE

ITEM	DESCRIPTION	MODEL
1	SINK	TO BE FURNISHED BY OWNER
2	SINK FAUCET	TO BE FURNISHED BY OWNER
3	REFRIGERATOR	TO BE FURNISHED BY OWNER
4	WINE COOLER	TO BE FURNISHED BY OWNER
5	TV	TO BE FURNISHED BY OWNER

ABACUS

ARCHITECTURE PSC

CONSULTANT

PROJECT NAME

IMPROVEMENTS ACAA BUILDING 10TH FLOOR
255-273 AVENIDA DE LA CONSTITUCION
SAN JUAN, PUERTO RICO

REVISIONS

No.	DESCRIPTION	DATE
1	ADDENDA	1-23-23

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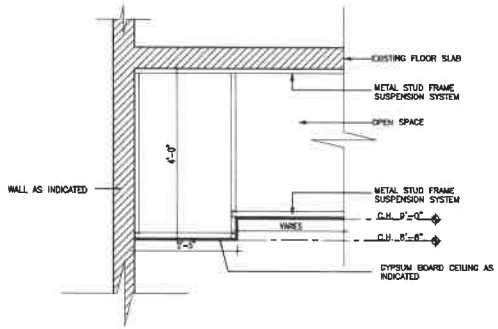
DRAWING TITLE

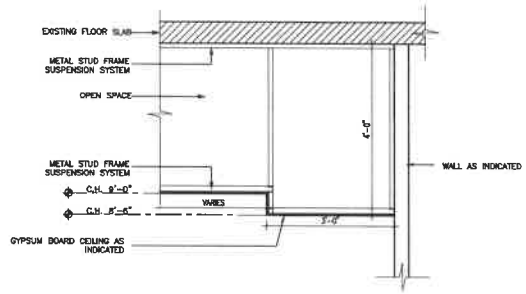
10TH FLOOR
CABINET DETAILS

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

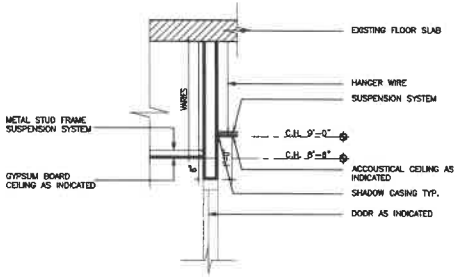
DRAWING No. A-2.1



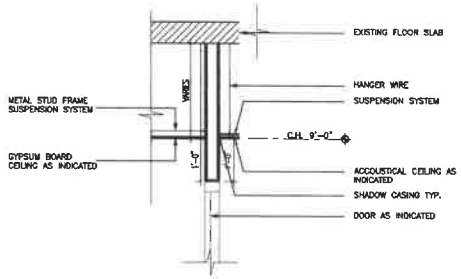
TYP. DETAIL 1
SCALE: 3/4" = 1'-0"



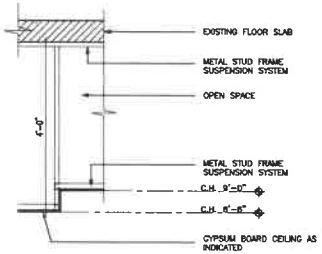
TYP. DETAIL 4
SCALE: 3/4" = 1'-0"



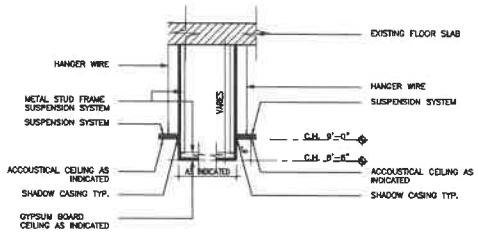
TYP. DETAIL 2
SCALE: 3/4" = 1'-0"



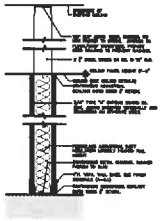
TYP. DETAIL 5
SCALE: 3/4" = 1'-0"



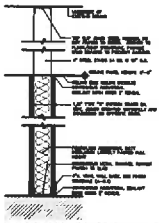
TYP. DETAIL 3
SCALE: 3/4" = 1'-0"



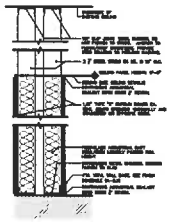
TYP. DETAIL 6
SCALE: 3/4" = 1'-0"



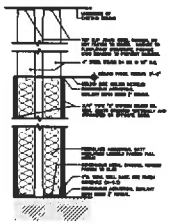
1A PARTITION WALL DETAIL
SCALE: 3/4" = 1'-0"



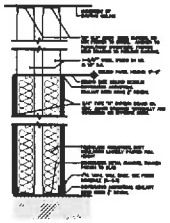
1B PARTITION WALL DETAIL
SCALE: 3/4" = 1'-0"



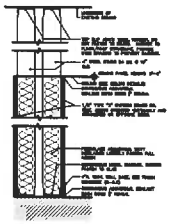
1C PARTITION WALL DETAIL
SCALE: 3/4" = 1'-0"



1D PARTITION WALL DETAIL
SCALE: 3/4" = 1'-0"



1E PARTITION WALL DETAIL
SCALE: 3/4" = 1'-0"



1E PARTITION WALL DETAIL
SCALE: 3/4" = 1'-0"

NOTES:

1. GYPSUM BOARD WALL & CEILINGS FURRING WITH ACOUSTIC TREATMENT (SOUND INSULATION AS PER SPECIFICATION MANUAL)

2. ALL GYPSUM BOARD PANEL SHOULD BE FIRE RATED AS PER SPECIFICATION MANUAL.

3. APPLY PRIMER AND PAINT FINISH. THE COLOR TO BE DETERMINE BY DESIGNER.

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ARCHITECTURE PSC
CONSULTANT

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DRAWING TITLE
10TH FLOOR
GYPSUM BOARD DETAILS

SCALE: VARIOUS
DRAWING NO.: A-3.0
PROJECT NO.:
DATE:
SHEET NO.: