City of Baltimore SIGNATURE READY SET

# CITY OF BALTIMORE DEPARTMENT OF GENERAL SERVICES CAPTIAL PROJECTS AND ENERGY DIVISION



CONTRACT NO. GS 21802

# BALTIMORE CONVENTION CENTER ELEVATOR REPLACEMENT

1 WEST PRATT STREET BALTIMORE, MD 21201

FOR THE MAYOR AND CITY COUNCIL BRANDON M. SCOTT, MAYOR

5/5/2022 Page 1 of 13.



DESCRIPTION

USER AGENCY

DEPARTMENT OF GENERAL SERVICES

sanjay kumar 11/15/2022

Terence Abraham

Marwan al Karajat 11/16/2022

Berke Stila

PROJECT

SHEET CS-001

ONTRACT REPLACEMENT

CONVENTION

CONVENTION

AL NOTES & CONDITIONS

THE SITE TO DETERMINE ACTUAL FIELD CONDITIONS, AND CHECK THE ACCURACY OF THE EXISTING CONDITIONS. FAILURE WILL NOT RELIEVE THEM OF THE RESPONSIBILITY FOR CARRYING OUT ANY AND ALL WORK SHOWN, NOTED OR SPECIFIED.

THE INTENT OF THESE DRAWINGS IS FOR THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIAL, FINISHES, EQUIPMENT, INSTALLATIK AND SERVICES NECESSARY FOR AND INCIDENTAL WITH THE WORK, TO PROVIDE THE OWNER WITH A COMPLETE PROJECT INCLUSIVE.

ACTUAL FIELD CONDITIONS MAY VARY FROM THOSE INDICATED. SHOULD ACTUAL CONDITIONS DIFFER FROM THOSE ORDINARLY ENCOUNTERED AND GENERALLY RECOGNIZED AS IN-BEENT ID WORK OF THE CONTRACTOR PROVIDED FOR IN THE CONTRACT, THE CONTRACTOR SHALL PROMPTLY, SEPORE CONDITIONS ARE DISTURBED, NOTIFY THE CONSTRUCTION MANAGER. FAILURE TO DO SO MAINABLE THE CONTRACTOR'S RIGHT TO RECEIVE ADDITIONAL THE OR CONSIDERATION DUE TO SUCH CONDITIONS.

BY SUBMITTING A BID PROPOSAL THE CONTRACTOR CERTIFIES THAT THEY HAVE VISITED THE SITE AND UNDERSTAND THE COMPLETE SCOPE OF WORK, WHICH IS INCLUDED IN THE PROPOSAL.

DEFINITIONS: "PROVIDE" MEANS "FURNISH AND INSTALL". "VERIFY" MEANS "VERIFY IN THE FIELD AND COORDINATE DIMENSIONS AND DISCREPANCIES".

THESE NOTES AND OTHER NOTES ON THE DRAWINGS ARE DIRECTIONS FOR THE CONTRACTOR'S FERFORMANCE, UNLESS NOTED OTHERWISE (U.N.O.). FOR EXAMPLE, THE VERS "INSTALL" MEANS "CONTRACTOR SHALL INSTALL", "RELOCATE" MEANS "CONTRACTOR SHALL INSTALL", "RELOCATE "MEANS "CONTRACTOR SHALL "MEANS "CONTRACTOR "MEANS "CO

DRAWINGS TAKE PRECEDENCE OVER GENERAL DRAWINGS. IF CONFLICT EXISTS ON THE DRAWINGS, THEN THE MORE STRINGENT REQUIREMENT SHALL APPLY. FINAL INTERPRETATION SHALL BE MADE BY THE ENGINEER. SAMPLES AND SHOP DRAWINGS MUST BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND PROCESSING BEFORE THE PURCHASE OR FABRICATION OF ANY MATERIALS. DIMENSIONS OF EXISTING OPENINGS SHALL BE VERIFIED PRIOR TO PREPARATION OF SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE A SCHEDULE OF ACTUAL OPENING DIMENSIONS AS VERIFIED IN FIELD.

 EXCEPT FOR PRE-FINISHED SURFACES, ALL ITEMS DISTURBED OR DAMAGED BY WORK SHALL BE REFINISHED TO MATCH SURROUNDING AREA OR FINISHED AS INDICATED. REPAIRED AND NEW AREAS OF WALLS OR CEILINGS SHALL BE BLENDED AND FEATHERED INTO THE SURROUNDING AREA. THERE SHALL NOT BE ANY VISIBLE SEANS OR CHANGE IN APPEARANCE BETWEEN THE REPAIRED. OR NEW AREA AND THE SURROUNDING AREA WHEN VIEWED FROM A DISTANCE OF 1 FEET.

If there are operations which involve excessive hoise (i.e., saw cutting concrete, etc.) It shall be coordinated with the owner to be performed during non-work hours.

**GENERAL CONSTRUCTION NOTES:** 

CAREFULLY REMOVE EXISTING CEILINGS AND INCIDENTAL RELATED WORK, SHOWN OR NOT SHOWN ON THE DRAWINGS, AS REQUIRED TO PROVIDE FOR THE REMOVAL AND INSTRALATION OF PIPING AND DICTIONS REPLANAL ADDIT. STORE EXISTING CEILING MATERIA AND INCIDENTAL WHERE INDICATED TO BE REINSTRALED IN A SAFE PLACE FOR REINSTALATION UPON COMMETTION OF WISK, EXEMPLIARITY SECURE SISTING LIGHTING IN PLACE WHERE CEILINGS ARE REMOVED, REMOVE AND REINSTALL EXISTING LIGHTING WHERE NECESSARY FOR REMOVAL AND DISTALLED HERE AND ADDITIONS OF WORKER NECESSARY FOR REMOVAL AND DISTALLED HERE ADDITIONS.

REPAIR EXISTING WALLS, CELLINGS, PAINTINGS, AND PLOORING/CARPETING AFFECTED BY DEMOLITION WORK, TO MATCH EXISTING. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING OR ADJACENT WORK, AND REPAIR OF THE SAME SHALL BE FORMED THE CONTRACTOR AT THE CONTRACTORS OF SEPPINE. DAMAGED CELLING TILES SHALL BE REPLACED, DETOLGTE AN AREA (ROOM) AND TRANSFER THESE USED TILES TO ALLOW FOR A BETTER MATCH IN OTHER AREAS WHERE TILES MAYE BEEN DAMAGED. USE NOW REPLACEMENT TILES IN DECLATED AS

LEAVE SPACE CLEAN ON COMPLETION, INCLUDING THE CLEANING OF GLASS, DOORS, FRAMES, FLOORS, BASE, HVAC DIFFUSERS, GRILLS AND LIGHT LENSES, ETC., VACUUM CARPETS.

 CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF ALL MATERIALS, STAGING IN THE BUILDING IS NOT AVAILABLE OTHER THAN WHATEVER SPACE IS AVAILABLE ON THE FLOOR BEING WORKED ON AT THAT TIME. BUILDING WILL BE OCCUPIED THROUGHOUT THE CONSTRUCTION PERIOD. CONSTRUCTION WORK SHALL BE PHASED SO THAT WORK SHALL BE PRASED ON ONE FLOOR AT A TIME. CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH SCHEDULE AT BEGINNING OF PROJECT OUTLINING WHEN WORK WILL BE PERFORMED ON BOAR LOOK TO ALLOW BUILDING OWNER TO COORDINATE WITH TERMIT

 BEFORE BEGINNING DEMOLITION WORK, CONTRACTOR SHALL PERFORM A DUCT LEAKAGE TEST ON THE EXISTING OUTSIDE AIR DUCT SUPPLY AND RETURN RISERS AND SUBMIT RESULTS OF TEST TO OWNER AND ENGINEER. 12. BEFORE BEGINNING DEMOLITION WORK, CONTRACTOR SHALL PERFORM AIR FLOW MEASUREMENTS OF EXISTING DUCTWORK WHERE INDICATED AND SUBMIT RESULTS OF TEST TO DWINER AND ENGINEER. CONTRACTOR IS RESPONSIBLE FOR NOT ONLY PROTECTING FURNITURE BUT ALSO MOVING THE FURNITURE REQUIR WORK ALL FURNITURES ISHALL BE MOVED BACK TO IT ORIGINAL LOCATION BY THE CONTRACTOR, CONTRACTOR, SHA WITH THE OWNER PRIOR TO PROCEEDING WITH WORK.

5. CONTRACTOR SHALL SEPARATE CONSTRUCTION AREA FROM EXISTING BUILDING WITH DUST PROOF BARRIERS. 6. CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING AND REPLACING EXISTING AIR FILTERS IN AREAS OF RENOVATION PROTECT DUCTWORK DURING CONSTRUCTION WITH TEMPORARY FILTERS ON RETURN DUCTWORK.

10. CONTRACTOR SHALL COORDINATE HOURS WITH BUILDING OWNER.

22. UNLESS OTHERWISE INDICATED ALL PIPING, CONDUIT, DUCTWORK AND SIMILAR SERVICES SHALL BE CONCEALED. 23. PROVIDE DUST PROOF TEMPORARY CONSTRUCTION PARTITIONS IN AREAS TO BE DEMOLISHED - TO PREVENT DUST AND PUMES FROM BATTERING BYTETING BUT DIVICE.

24. GENERAL NOTES, THOSE FOUND ON THIS SHEET, APPLY TO ALL DRAWINGS RELATED TO THIS PROJECT. 25 CONSTRUCTION NOTES SPECIFICALLY REFER TO ITEMS NOTED WITH NUMBER OR LETTER DESIGNATIONS ON THE RES WHERE THE DESIGNATIONS ARE SHOWN.

26. UNLESS OTHERWISE INDICATED, THE WORK INDICATED IS BASE BID WORK

17. THE FLOOR SPACE WILL BE UNDCOUPLED AT THE TIME OF WORK & SHALL BE SECURED AT THE FAID OF FACH WORK DAY.

13. CONTRACTOR SHALL STAGE WORK IN SUCH A WAY AS TO ENSURE SAFE EMERGENCY EGRESS AT ALL TIMES.

THE COLD TO SEP MAKE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS AND REQUIREMENTS OF ALL

CS-601 COVER SHEET TS-601 TITLE SHEET ANDMINITURAL

STRUCTURAL MO DRAWINGS BY THE OFF

EV-IRI ELEVATOR EQUIPMENT ROOM PART PLANS EV-IRI ELEVATOR MONTHAN ARET BLAND

ELECTRICAL

MECHANICAL

BALTIMORE

CONVENTION

CENTER



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CAPITAL PROJECTS

TITLE SHEET

03/24/2022

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BALTIMORE CONVENTION CENTER ELEVATOR REPLACEMENT

**PROJECT** 

1 W PRATT STREET BALTIMORE, MD 21201 DGS PROJECT No. GS 21802





MARCH 24, 2022

License #12442 **legio** Thomas Panikar

ARCHITECTURE

KPN ARCH, Inc. JACOB PANIKER, AIA, LEED AP 3600 CUPPER MILL ROAD, SUITE 228 BALTIMORE, MARYLAND 21211 PH: (443) 682-7757

**PROFESSIONAL** CERTIFICATION

PPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITEC UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 13720. EXPIRATION DATE: 01/30/2020.

STRUCTURAL

CARROLL ENGINEERING, INC.

KEVIN MERRIMAN, P.E. 215 SCHILLING CIRCLE, SUITE 102 PH: (410) 785-7423

**PROFESSIONAL** CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED O

APPROVED BY ME, AND THAT I AM A DULY LICENSED PROPESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 21155 EXPERITION DATE: 92/13/2021.

VDA ASSOCIATES TIM DONAHUE, SENIOR ASSOCIATE 601 13TH STREET NW, SUITE 900 SOUTH WASHINGTON, DC 20005

ELEVATOR

PH: (202) 851-3388 **PROFESSIONAL** CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21155, EXPIRATION DATE: 03/13/2021.

VICINITY MAP

MECHANICAL/ELECTRICAL

GIPE ASSOCIATES, INC.

NEAL CLUCK, P.E. (MECHANICAL) KRIS CURRERI, P.E. (ELECTRICAL) RADIO PARK, BUILDING A, SUITE 223 1220 EAST JOPPA ROAD BALTIMORE, MARYLAND 21286 PH: (410) 832-2420

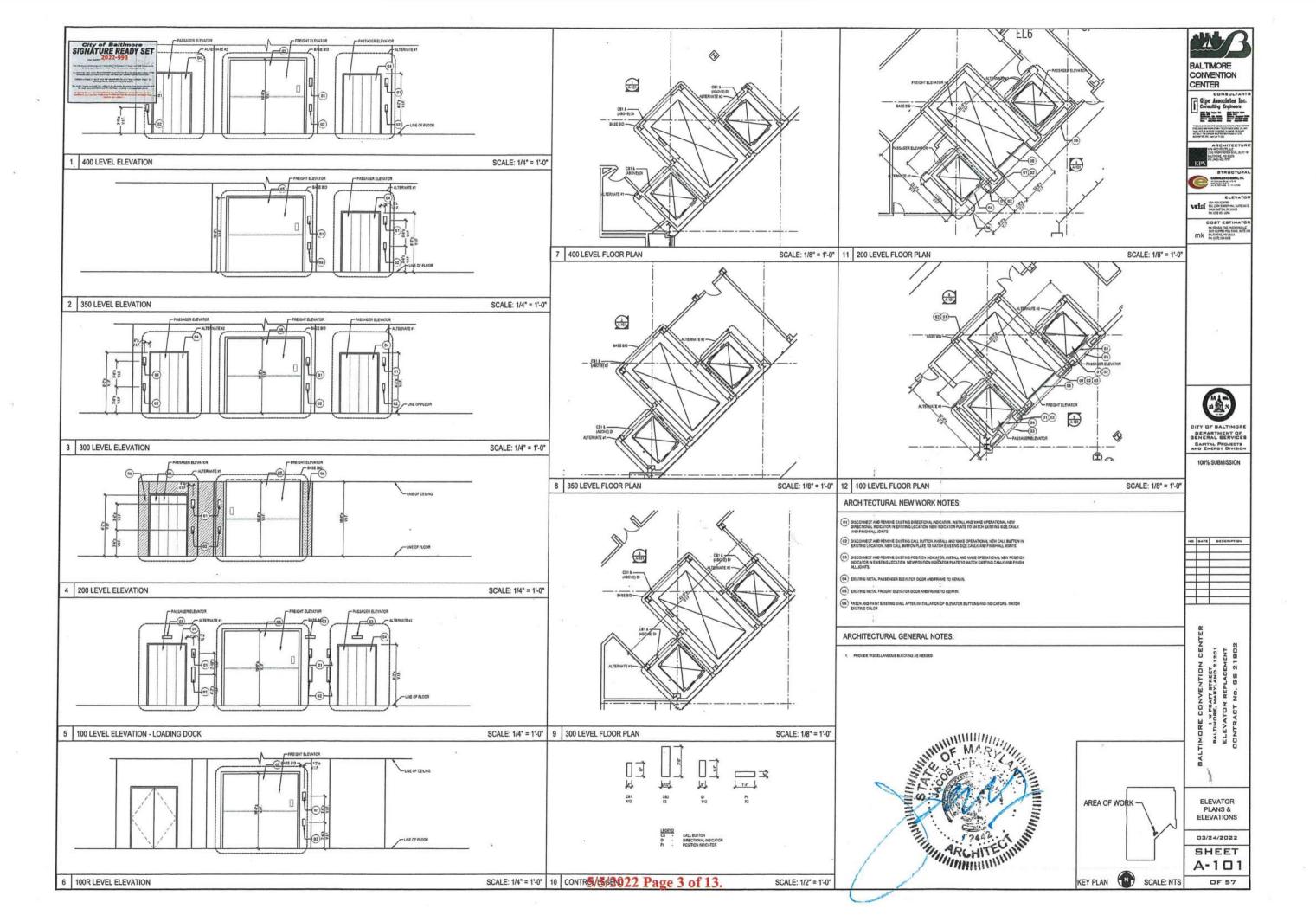
## PROFESSIONAL CERTIFICATIONS

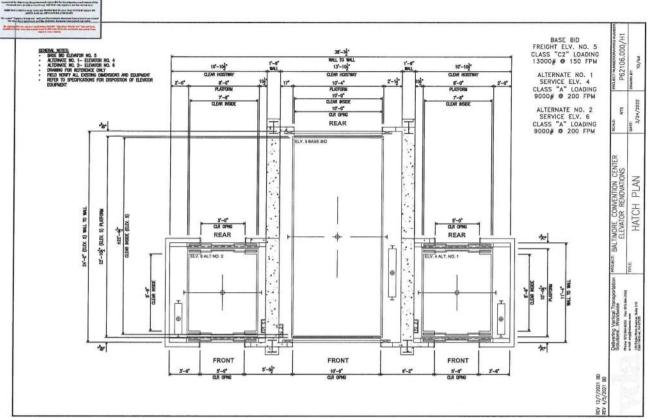
## LOCATION MAP



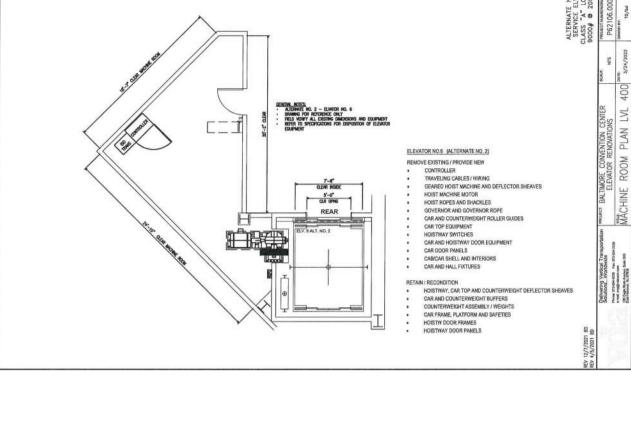
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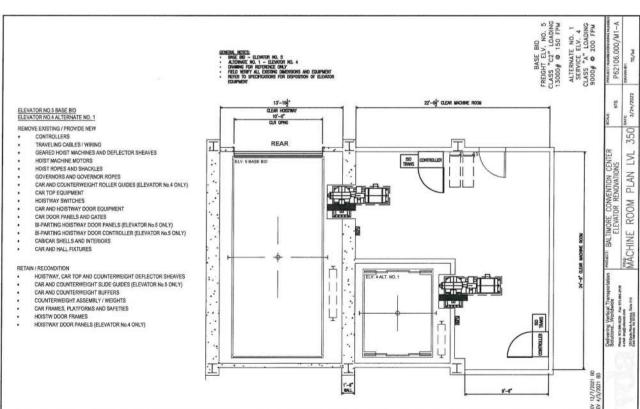
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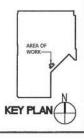


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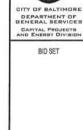












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BALTIMORE CONVENTION CENTER

1 W PRAIT STREET

BALTIMORE, MARYLAND 21201

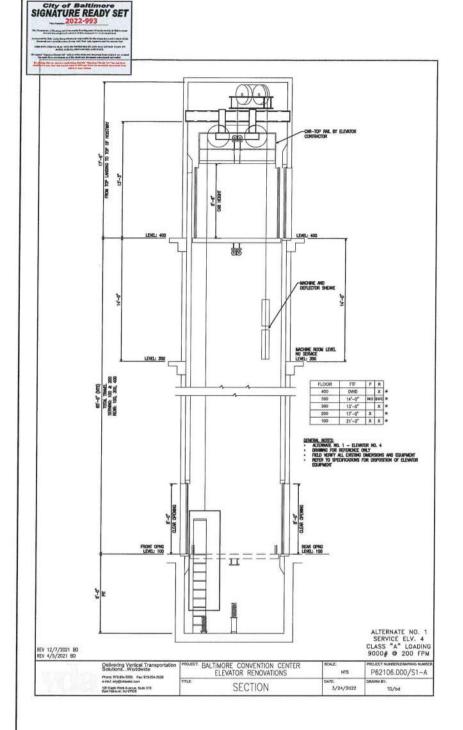
ELEVATOR REPLAGMENT

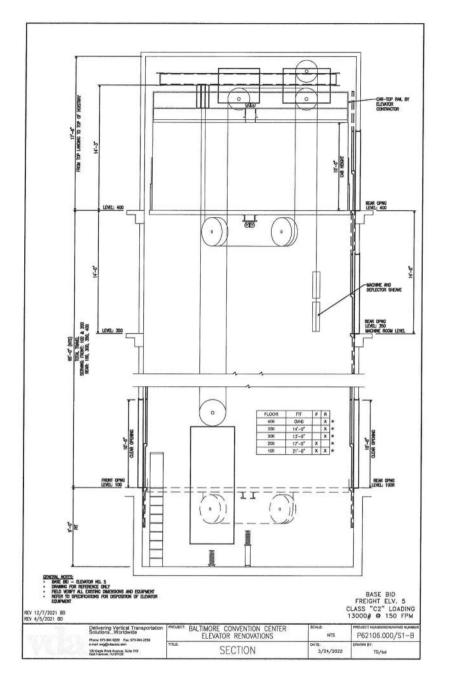
CONTRACT NO. 65 21802

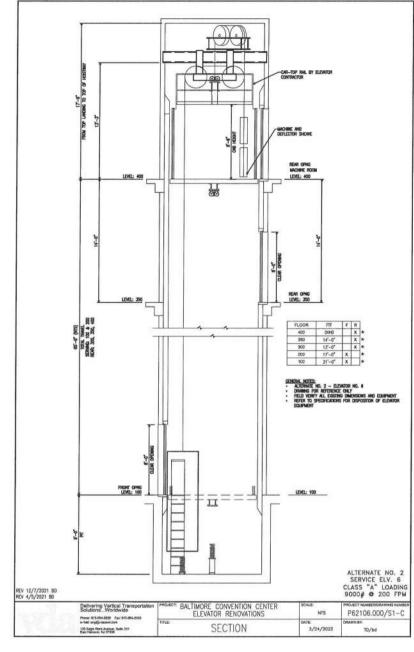
ELEVATOR EQUIPMENT ROOM PART PLANS

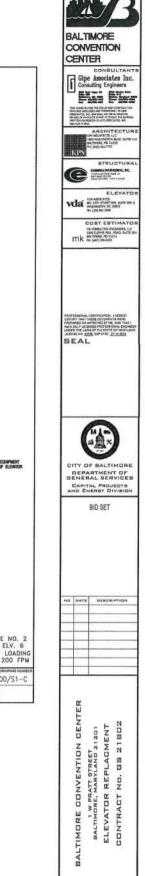
SHEET EV-101

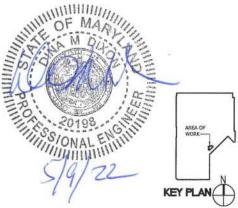
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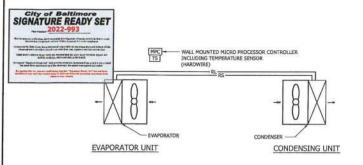












#### SEQUENCE OF OPERATION

1. MICRO PROCESSOR CONTROLLER SHALL SEQUENCE EVAPORATOR UNIT TO MAINTAIN 78°F (ADJUSTABLE)

TYPICAL DUCTLESS SPLIT HEAT PUMP UNIT CONTROL DIAGRAM

YMBOL	DEFINITION
-06	CHILLED WATER SUPPLY
-OR	CHILLED WATER RETURN
CW	COLD WATER
HS	HEATING SUPPLY
HR	HEATING RETURN
cs—	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
CD	CONDENSATE DRAIN LINE
L	REFRIGERANT LIQUID
S	REFRIGERANT SUCTION
F	FIRE LINE
P—	SPRINKLER PIPING
	PIPE-TURN DOWN
_	PIPE-TURN UP
	PIPE DROP INTO
<u></u>	PIPE TAP INTO BOTTOM
_	END CAP
5	DIRECTION OF FLOW
_	BALL VALVE

-PROVIDE DIE-ELECTRIC INSULATOR STRIPS IF DISSIMILAR METALS ARE USED

RISER CLAMP MODIFIED TO

FIT IN CHASE OR COLUMN ENCLOSURE IF NECESSARY -CAULK ANNULAR SPACE WITH FIRE RETARDANT SEALER TOP AND BOTTOM PER MANUFACTURER'S RECOMMENDED

-SET SLEEVE 1" ABOVE FINISHED FLOOR

SLEEVE SET, FLUSH WITH BOTTOM OF SLAB.

Cł	HANICAL PIPING LEGEND	GENE	RAL MECHANICAL LEGEND
L	DEFINITION	SYMBOL	DEFINITION
_	CHILLED WATER SUPPLY	9	DIAMETER
-	CHILLED WATER RETURN	9	CONNECT TO EXISTING
_	COLD WATER	0	DEMOLITION ENDS HERE
_	HEATING SUPPLY	0	DRAWING NOTE DESIGNATION
-	HEATING RETURN	6	THERMOSTAT
_	CONDENSER WATER SUPPLY		
-	CONDENSER WATER RETURN		
_	CONDENSATE DRAIN LINE		
-	REFRIGERANT LIQUID	MECHA	NICAL DUCTWORK LEGEND
_	REFRIGERANT SUCTION		
_	FIRE LINE	SYMBOL	DEFINITION
_	SPRINKLER PIPING	$\boxtimes$ . $\square$	SUPPLY AIR DUCT UP, DOWN
_	PIPE-TURN DOWN		RETURN AIR DUCT UP, DOWN
_	PIPE-TURN UP	☑.区	EXHAUST AIR DUCT UP, DOWN
_	PIPE DROP INTO		OUTSIDE AIR DUCT UP, DOWN
	PIPE TAP INTO BOTTOM		

SYMBOL	DEFINITION
-	1 HOUR FIREWALL
	2 HOUR FIREWALL
	SMOKE PARTITION
	SMOKE BARRIER
η	FIRE DAMPER
MANAAM	MOTOR OPERATED DAMPER

	ECHANICAL TERMINAL EQUIPMENT LEGEND
SYMBOL	DEFINITION
П	DSS WALL CASSETTE

				0	UCTLESS	SPLIT	SYSTE	M SCHE	EDULE	(DSS)						
10.00	SERVICE	LO	CATION	MAX	REFRIGERANT	CAPACITY (MBH)	INDOOR CONDITIONS   OUTDOOR		OUTDOOR					INDOOR UNIT	BASED ON MITSUBISHI	
NO.		EVAPORATOR UN	T CONDENSING UNIT				EAT DB	EAT WB	EAT DB ('F)	V/e/Hz	MCA MOCP EMERGENCY	SIZE (L X W X H)	EVAPORATOR UNIT	CONDENSING UNIT		
1	ELEVATOR MACHINE ROOM	LEVEL 400 EM	LEVEL 400	425	410A	18	80	67	95	208/1/60	13	20	Y	36X10X12	PKA-A18HA6	PUY-A18NHA6
2	ELEVATOR MACHINE ROOM	LEVEL 350 EM	LEVEL 350	920	410A	36	80	67	95	208/1/60	25	40	N	47X12X15	PKA-A36KA6	PUY-A36NHA6

NOTES: 1. BASED ON MITSUBISHI ELECTRIC MR. SLIM WITH ADVANCED MICROPROCESSOR CONTROLLER, INVERTER DRIVEN COMPRESSOR R410A REFRIGERANT AND DEHUMIDIFICATION MODE,

PIPE/DUCT CENTERLINE

SCH. 40 GALVANIZED STEEL PIPE SLEEVE SIZED TO ACCOMMODATE MIN. 1" ANNULAR SPACE BETWEEN PIPE/DUCT & SLEEVE.

PROVIDE 18 GA. STEEL WATER STOP (CONTINUOUS) AROUND SLEDVE (WELDED)

NOTE: WATER STOP ON APPLICABLE FOR NEW CONCRETE POURS

TYPICAL SLEEVE THRU FLOOR DETAIL

- 100' REFRIGERANT LINE LENGTH, 100' LIFT
- 2. LOW AMBIENT CONTROL (COOLING TO O'F OUTDOOR AIR TEMPERATURE). ALL UNITS SHALL BE PROVIDED WITH INTEGRAL CONDENSATE DRAIN PUMPS.
- 4. INDOOR UNIT ELECTRICAL CHARACTERISTICS: 208V/1/60HZ.
- 5. MINIMUM SEER: DSS-1 = 15.3; DSS-2 = 14.0

ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ATC	AUTOMATIC TEMPERATURE CONTROLS
BAS	BUILDING AUTOMATION SYSTEM BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CAP	CAPACITY COOLING COIL
CC	COOLING COIL
CD	CONDENSATE DRAIN
CFH	CONDENSATE DRAIN CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE  COEFFICIENT OF PERFORMANCE
COP	COFFEICIENT OF PERFORMANCE
CR	CONDENSED WATER DETI ION
CS	CONDENSER WATER RETURN CONDENSER WATER SUPPLY/CURRENT SENSOR
СТ	COOLING TOWER
CW	COLD WATER
CX	CONNECT TO EXISTING
D	DAMPER/DEEP/DIA/DIFFUSER/DRAIN/DROP/DISCHARGE DECIBEL/DRY BULB
DB	DECIRE /DRY BUILB
DSS	DUCTLESS SPLIT SYSTEM
DWG	DUCILESS SPLIT STSTEM
	DRAWING
DWGS	DRAWINGS EAST/ELECTRICAL
E	EAST/ELECTRICAL
EA	EACH/EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRIC/ELECTRICAL ELEVATION/ELEVATOR
ELEV	
EMR	ELEVATOR MACHINE ROOM
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	LEVAPORATOR:
EX	EXISTING
EXH	EXHAUST FAHRENHEIT/FAN/FIRE/FIRE LINE/FREEZESTAT
F	FAHRENHEIT/FAN/FIRE/FIRE LINE/FREEZESTAT
FA	FACE AREA/FREE AREA FLEXIBLE CONNECTION, FAN COIL
FC.	FLEXIBLE CONNECTION, FAN COIL
PCO PCU	FLOOR CLEANOUT FAN COIL UNIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FT	FEET/FOOT
FV	FACE VELOCITY
G	GAS/GRILLE
GA	GAUGE GALLON
GAL	GALLON HEIGHT/HIGH/HUMIDITY SENSOR
Н	
HD	HEAD
HOA	HAND-OFF-AUTOMATIC SWITCH
HP	HIGH PRESSURE/HORSEPOWER HOT WATER HEATING RETURN/HOUR
HR	HOT WATER HEATING RETURN/HOUR
HS	HOT WATER HEATING SUPPLY /HIGH SCHOOL
HTG	HEATING
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	HOT WATER HOT WATER GENERATOR
HWG	HOT WATER GENERATOR
HWR	HOT WATER RETURN
HZ	HOT WATER RETURN HERTZ
IN	
IT	INFORMATION TECHNOLOGY
IW	INDIRECT WASTE
K	INDIRECT WASTE KITCHEN EQUIPMENT TYPE
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
M	LAVATORY
M	MECHANICAL
XAM	MAXIMUM
MBH	LAVATORY MECHANICAL MAXIMUM THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL MECHANICAL EQUIPMENT ROOM
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
N	NORTH
NTS	NORTH NOT TO SCALE
PH	PHASE
RPM	REVOLUTIONS PER MINUTE
RX	REMOVE EXISTING
SEER	SEASONAL ENERGY EFFICIENCY RATIO
	SENSIBLE COOLING
	STORM WATER
SW	THE PROPERTY OF THE PROPERTY O
SW	TEMPERATURE SENSOR
SW	TEMPERATURE SENSOR
SW T TYP W	TEMPERATURE SENSOR TYPICAL WASTE/WATER/WATTS/WEST/WIDTH WET BUJB

# MECHANICAL ABBREVIATIONS ABBREV DESCRIPTION

ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EX	EXISTING
EXH	EXHAUST
F	FAHRENHEIT/FAN/FIRE/FIRE LINE/F
FA	FACE AREA/FREE AREA
FC	FLEXIBLE CONNECTION, FAN COIL

SEAL SLEEVES THRU FIRE/SMOKE WALLS AND FLOOR IN A SMOKE TIGHT MANNER WITH AN APPROVED FIRE STOP CAULK, SLEEVES THEODISH RATED ASSEMBLIES SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVE OF SIZE TO PASS PIPE AND INSULATION; REMOVE BURRS PIPE AND INSULATION TO BE CENTERED IN SLEEVE - DO NOT SUPPORT PIPE FROM SLEEVE -FINISHED WALL SURFACE PIPING EXPOSED TO VIEW

NOTE: FOR INTERIOR FRAME PARTITIONS-PIPE SLEEVES MAY BE FABRICATED FROM GALVANIZED SHEET HETAL; ROUND TUBE CLOSED WITH SNAPLOCK JOINT, WELDED SPRAIL SAMES, OR WELDED LONGTUDINAL, JOINT, FABRICATE FROM THE FOLLOWING GAUGES: 3" AND SWALLER, 20 GALGE; 4" TO 6", 16 GAUGE; OF 1, 16 GAUGE; TO 1, 10 GAUGE; T

TYPICAL PIPE SLEEVE THRU INTERNAL WALL DETAIL

#### GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE, COUNTY AND LOCAL CODES, REGULATIONS AND ORDINANCES: MATERIAL, EQUIPMENT, INSTALLATION, AND PROCEDURES SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST CORRENT EDITION OF THE REFERENCE DOCUMENTATION.
- REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION.

- REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION.

  REPAINATIONAL FIRE PROTECTION ASSOCIATION.

  SHACKA SHEET METAL AND AIR CONDITIONING INATIONAL ASSOCIATION.

  SHACKA SHEET METAL AND AIR CONDITIONING INATIONAL ASSOCIATION.

  ASME AMERICAN SOCIETY OF RECHANICAL ENGINEERS.

  ASTM AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS, INC. LATEST EDITION OF STANDARD 15.

  ASTMA AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS, INC. LATEST EDITION OF STANDARD 90.1. 2007 (LEED COMPLIANCE), 2013 CODE COMPLIANCE.

  DITENAL PROPERTIES OCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS, INC. LATEST EDITION OF STANDARD 90.1. 2007 (LEED COMPLIANCE), 2013 CODE COMPLIANCE.

  INTERNATIONAL BUILDING CODE 2018.

  INTERNATIONAL FUEL GOS CODE 2018.

  INTERNATIONAL FUEL GOS CODE 2018.

  INTERNATIONAL FUEL GOS CODE 2018.

  INTERNATIONAL RUEL GAS CODE 2018.

  INTERNATIONAL HELGAS COCOE 2018.

  INTERNATIONAL HELGAS COCOE 2018.

  INTERNATIONAL HELGAS COCOE 2018.

  INTERNATIONAL HELGAS COCOE 2018.

- CONTRACTORS SHALL BE RESPONSIBLE TO VERIFY AND FAMILARIZE THEMSELVES WITH ACTUAL FIELD CONDITIONS ASSOCIATED WITH WORK UNDER THIS CONTRACT PRIOR TO SUBMITTING THEIR BID.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- BLIN ALL CONDENSATE DRAIN PIPING WITH 2% MINIMUM GRADE LINESS OTHERWISE NOTED
- UNLESS OTHERWISE NOTED, ALL PIPING AND DUCTWORK IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB AND STRUCTURE, WITH SPACE FOR INSULATION, IF REQUIRED.
- INSTALL PIPING AND DUCTWORK SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE.
- COORDINATE ALL MECHANICAL WORK WITH OTHER TRADES INCLUDING BUT NOT LIMITED TO PLUMBING WORK, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL WORK ETC., SHOWN ON OTHER DRAWINGS.
- MAINTAIN MINIMUM 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUIT, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MEDIANICAL AND ELECTRICAL ROOMS.
- CERTAIN ITEMS SUCH AS CLEAN-OUTS, ACCESS DOORS, RISES AND DROPS IN DUCTWORK AND PIPING, ETC., ARE INDICATED ON THE DRAWTINGS FOR CUARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THOSE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- . EQUIPMENT CONNECTION SIZES MAY DIFFER FROM INDICATED DUCT OR PIPE SIZES. PROVIDE APPROPRIATE TRANSITIONS WHERE REQUIRED.
- THE DRAWINGS ARE DIAGRAMMATIC AND ALL OFFSETS, FITTINGS, TRANSITIONS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. COORDINATE THE INSTALLATION OF ALL PIPING, DUCTWORK, EQUIPMENT AND OTHER WORK WITH ALL OTHER TRADES.
- IT IS THE INTENT THAT ALL WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT MATERIAL OR WORK SPECIFICALLY NOT INDICATED ON THE DRAWINGS, BUT NECESSARY TO COMPLETE THE WORK, SHALL BE PROVIDED.
- 17. ALL AUTOMATIC TEMPERATURE CONTROL SETPOINTS SHALL BE ADJUSTABLE.
- 18. PROVIDE A MINIMUM OF 42-INCHES OF CLEARANCE TO ALL EQUIPMENT THE ELECTRICAL COMPONENT LOCATIONS.
- CONTRACTOR IS PROHIBITED FROM ATTACHING TO THE ROOF DECK AND LOWER CHORD OF JOISTS AS A SUPPORT SYSTEM FOR DEVICES AND BUILDING SYSTEMS.
- CONTRACTOR SHALL REPAIR ALL PENETRATION HOLES IN WALLS, FLDORS, CEILINGS AND ROOF AS A RESULT OF DEMOLITION WORK, REPAIRS SHALL MATCH ADJACENT CONSTRUCTION.
- . ALL PIPE PENETRATIONS IN EXPOSED AREAS SHALL HAVE ESCUTCHEON PLATES.
- PROVIDE ALL NECESSARY COMPONENTS FOR U.L. LISTED THROUGH PENETRATION SYSTEM AT RATED FLOORS, CELLING AND WALL PENETRATIONS IN ORDER TO MAINTAIN THE REQUIRED ASSEMBLY RATING. REFER TO ARCHITECTURAL DIMANINGS FOR RATED ASSEMBLY LOCATIONS AND CONSTRUCTION.
- . INSTALL ALL WORK SO THAT PARTS REQUIRING PERIODIC INSPECTION, OPERATION, MAINTENANCE, AND REPAIR ARE READILY ACCESSIBLE. INSTALL CONCRALED VALVES, EXPANSION JOINTS, CONTROLS, DAMPEIS, AND EQUIPMENT REQUIRING ACCESS IN LOCATIONS PREELY ACCESSIBLE THROUGH ACCESS DOORS NOT LESS THAN 18-INCHES BY 18-INCHES.
- ALL CONDENSATE DRAIN PANS SHALL BE TESTED WITH AN ALTERNATE SOURCE OF WATER IF THE UNIT IS NOT PRODUCING CONDENSATE IN SUFFICIENT QUANTITIES TO FLOOD THE PAN AND DRAIN.
- THE PROJECT SHALL BE PHASED. THE FIRST ELEVATOR TO BE REPLACED SHALL BE ELEVATOR NO.6. THE SECOND ELEVATOR TO BE REPLACED SHALL BE ELEVATOR NO.4. ELEVATOR NO.5 SHALL BE THE FINAL ELEVATOR REPLACED.



NOTES:

1. COORDINATE DISTANCE OFFSETS WITH EQUIPMENT PRESSURE DIFFERENTIALS.

2. COORDINATE ARRANGEMENT TO ALLOW ACCESS TO ALL CLEANOUTS.

TYPICAL TERMINAL UNIT CONDENSATE DRAIN TRAP DETAIL SCALE: NONE

BAI TIMORE CONVENTION CENTER Gipe Associates Inc Consulting Engineers



vda assocites.

William Street MM, Suite MM (MISSELE MM)
MM (202 MI) (202 MI)

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ITY OF BALTIMO DEPARTMENT OF SENERAL SERVICE CAPITAL PROJECTS

BID SET

GENERAL NOTES **ABBREVIATIONS** AND LEGENDS

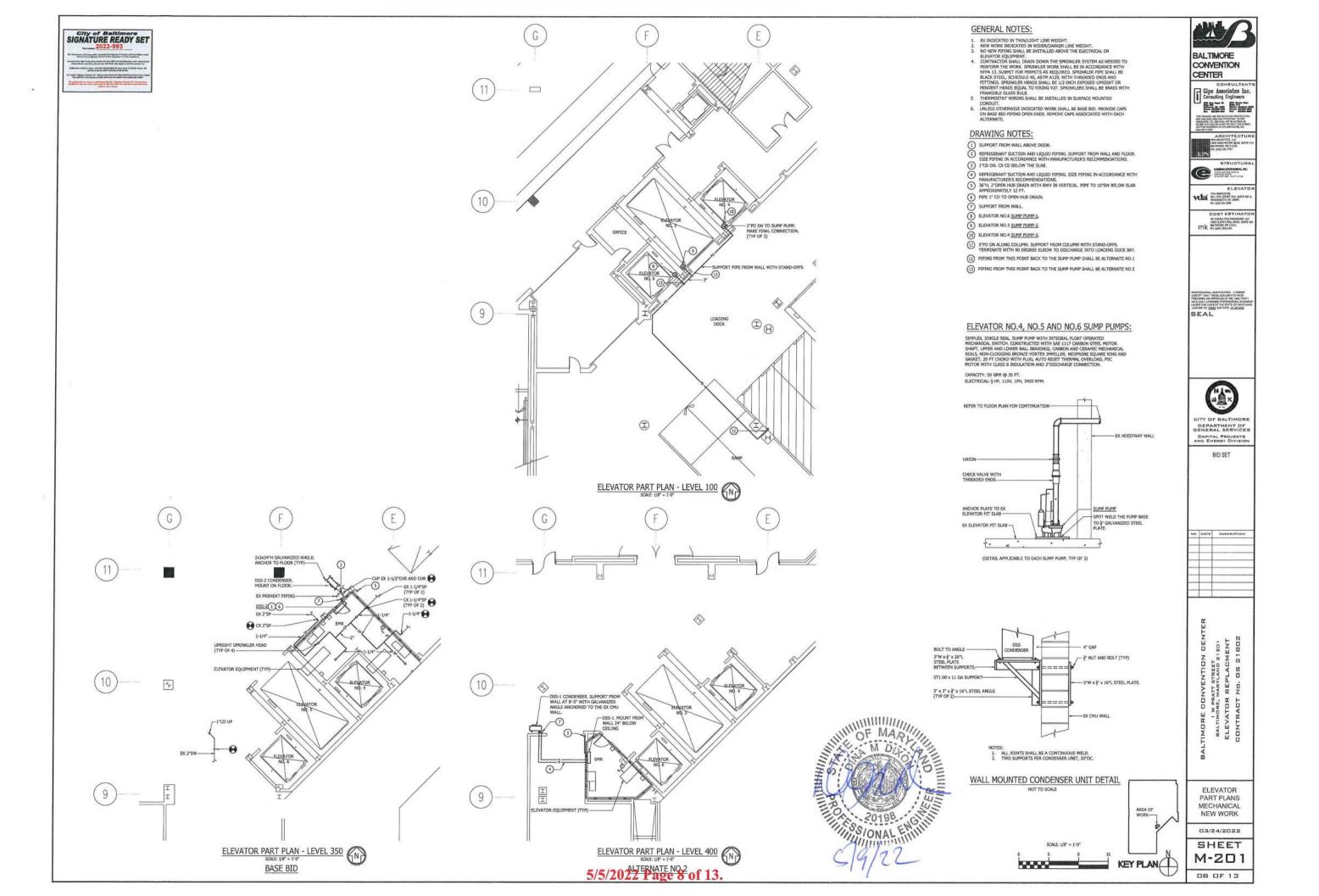
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5/5/2022 Page 6 of 13.

GENERAL NOTES: SIGNATURE READY SET EX INDICATED IN THIN/LIGHT LINE WEIGHT.
 DEMOLITION WORK INDICATED IN WIDER/DARKER LINE WEIGHT, BALTIMORE CONVENTION DRAWING NOTES: RX 1-1/2"CD DN TO OPEN HUB DRAIN, RX DRAIN OPEN HUB DRAIN TO BELOW SUAB AND CAP, REPAIR SUAB TO MATCH EX. CENTER Gipe Associates Inc.
Consulting Engineers REPAIR SLAB TO MATCH EX (TYP). 3 REPAIR WALL TO MATCH EX (TYP). TO ASSOCIATE ON STORY NO. 1. TO STORY NO. 1. TO STORY NO. 1. TO STORY NO. 1. TO STORY NO. 1. TO STORY NO. 1. 1. TO STORY NO. 1. TO STORY CITY OF BALTIMORE
DEPARTMENT OF
GENERAL SERVICES
DAPITAL PROJECTS
AND ENERGY DIVISION 3 EX 1-1/2"OHS AND CHR-RX 1-1/4\* RX 1-1/2\* -EX 2"SP-RX 1-1/4\*-4 ELEVATOR PART PLAN - LEVEL 350 ELEVATOR PART PLAN - LEVEL 400
SCALE: 1/8" = 1'-0" BASE BID ALTERNATE NO.2 (NOTE: ALL WORK ON THIS PLAN IS BASE BID WORK) ELEVATOR PART PLANS MECHANICAL DEMOLITION SHEET SCALE: 1/8" = 1'-0" M-101 KEY PLAN 5/5/2022 Page 7 of 13. 07 DF 13



## SIGNATURE READY SET **GENERAL NOTES:** THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS OF ALL OTHER TRADES ON THE PROJECT. ELECTRICAL OR SYSTEMS CONNECTIONS INDICATED ON MECHANICAL, CIVIL, AND STRUCTURAL AND ALL OTHER DRAWINGS WHICH ARE PART OF THIS PROJECT, SHALL BE CONSIDERED A PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT NO EXTRA COST TO THE OWNER.

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH SHALL NOT BE SCALED, REFER TO THE
ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND EQUIPMENT AND DIMENSIONAL INFORMATION
TO BOUGH-IN. COORDINATE LOCATIONS OF RECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIDE TO
ROUGH-IN OF SERVICE EQUIPMENT AND WIRELD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTING OF WIRING AND CONDUITS AND SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING TO LIMIT VOLTAGE DROP TO 3%. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE WIRING FER REC. 20 AMPRIES CENTUTTS SHALL BE SIZED AS FOLLOWS.

20 AMPERE CIRCUITS

#12 0'-130' #10 130'-210' #8 210'-340' #6 340'-540' #4 OVER 540'

WIRE SIZE WIRING LENGTH WIRE SIZE

NOTES:
BRANCH CIRCUITS IN PANELBOARDS WITH 200% RATED NEUTRAL BUS, ECM MOTORS AND ALL
DIMMED LIGHTING CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.

277 VOLT

#12 #10 #8

## **ELECTRICAL LEGEND**

DUPLEX RECEPTACLE: 2P. 3W. 20A. 125V. NEMA 5-20R: MOUNT 1'-6" AFF UDN: DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; WEATHERPROOF AND WEATHER RESISTANT, GROUND FAULT INTERRUPTING CIRCUIT MOUNT AT 18" AFF UON.

Φ SIMPLEX RECEPTACLE; 1P, 3W, 20A, 125V, NEMA 5-20R; MOUNT 1'-6" AFF UCN.

PANELBOARD - M.H. 6'-6" AFF TO TOP OF PANEL

JUNCTION BOX - CEILING, WALL MOUNTED

STRIP FIXTURE - 1'X4', TYPE AS NOTED.

STRIP FIXTURE ON EMERGENCY CIRCUIT - TYPE AS NOTED.

LINE VOLTAGE TOGGLE SWITCH; SINGLE POLE, 3-WAY, 4-WAY; SUBSCRIPT INDICATES FIXTURES/OUTLETS CONTROLLED; MOUNT AT 4'-0" AFF TO TOP

10 42 0

LIGHTING

DOWNLIGHT

2X4 FIXTURE

**SWITCHES** 

OCCUPANCY SENSOR

WALL MOUNTED FIXTURE

**POWER** 

MANUAL MOTOR STARTER WITH H.O.A. SELECTOR SWITCH IN NEMA 1 ENCLOSURE, MOUNT 41-0" AFE TO TOP LINLESS OTHERWISE NOTED.

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S S3S4

05

WIRING AND CONDUIT SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT WIRING AND CONDUIT SIZES. CONTRACTOR SHALL PROVIDE SPLICE BLOCKS AND REDUCING PINS AS REQUIRED TO TERMINATE WIRING AND MASE FINAL CONNECTIONS. PROPERLY SUPPORT ALL EXISTING LY CABLING, INCLUDING BUT NOT LIMITED TO VOICE, DATA, VIDEO, CONTROLS, FIRE ALARM, SECURITY, CCTV. ETC. ABOVE CELLINGS.

CONDUIT SIZE

### **DEMOLITION NOTES:**

WIRING LENGTH

OVER 240"

DEMOLITION DRAWINGS ARE DIAGRAMMATIC IN NATURE; NO ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING ELECTRICAL WORK. WHEN AN ITEM IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED ELECTRICAL. WORK BACK TO POINT OF SOURCE, UDN.

WHERE WORK PASSES THROUGH THE RENOVATION AREA TO SERVE OTHER PORTIONS OF THE SUILDING, OR WORK IN THE RENOVATION AREA INDICATED TO REMAIN, IT SHALL BE SUITABLY SELECATED AND THE SYSTEMS RESTORED TO NORMAL COORDINATE ANY OUTAGES WITH OWNER? DAYS IN ADVANCE.

- 3. WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED AGAINST DAMAGE.
- 4. VERIFY ALL EXISTING CONSTRUCTION RELATED CONDITIONS PRIOR TO DEMOLITION AND NEW CONSTRUCTION
- COORDINATE EXTENT OF DEMOLITION WITH NEW CONSTRUCTION DRAWINGS, PERFORM ALL NECESSARY DEMOLITION IN ORDER TO FULLY AND PROPERLY INSTALL ALL NEW WORK, REGARDLESS OF WHETHER OR NOT IT IS SHOWN AND/OR NOTED.
- REMOVE FROM THE BUILDING AND THE CONSTRUCTION SITE, ALL CONSTRUCTION DEBRIS AND/OR ITEMS NOT TO BE RETAINED BY THE CONNER. THE CONNER WILL BETAIN ALL SALVAGE THAT IS OF VALUE AS DESIGNATED BY THE CONNER'S REPRESENTATIVE. THE CONNER WILL DIRECT THE CONTRACTOR AS TO THE LOCATION OF STORAGE AREA OWNER'S REPRESENTATI FOR SALVAGED ITEMS.
- COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE OWNER TO MINIMIZE DISRUPTION OF THE NORMAL DAILY FUNCTIONING OF THE OWNERS OCCUPIED AREAS.
- ALL RECESSES, HOLES AND BOX OPENINGS IN EXISTING WALLS FROM REMOVAL OF EQUIPMENT, FIXTURES AND DEVICES NOT COVERED BY NEW WORK SHALL BE INFILLED AND PATCHED.

### CONDUIT

HOMERUN TO PANELBOARD; NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES

SPACE, OR SURFACE MOUNTED WHERE NO CEILING OR WALL SPACE EXISTS, REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES

BRANCH CIRCUIT CONDUIT AND WIRING IN SLAB, UNDER FLOOR OR UNDERGROUND; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES

### FIRE ALARM

FIRE ALARM PULL STATION: MOUNT AT 4'-0" AFF TO TOP.

SD HD HEAT DETECTOR

F

₹ 110cd

\$

СМ

1

FIRE ALARM ANNUNCIATOR/FIRE ALARM CONTROL PANEL AS NOTED, MOUNT 56" AFF TO TOP

CEILING MOUNTED FIRE ALARM STROBE LIGHT; CANDELA RATING AS INDICATED

CEILING MOUNTED FIRE ALARM HORN STROBE; CANDELA RATING AS INDICATED BY NUMBER, WG INDICATES PROVIDE W/ WIREGUARD WALL MOUNTED FIRE ALARM HORN STROBE LIGHT; CANDELA RATING AS INDICATED; WALL MOUNTED BO' AFF TO TOP OR 12' BELOW CELLING, WHICHEVER IS LOWER.

CONTROL MODULE

## **SECURITY**

CCTV CAMERA; CEILING/WALL MOUNTED H⊟¤

## **MISCELLANEOUS**

DENOTES REFERENCE TO DRAWING NOTE

[0]

0 TTEMS SHOWN SOLID/LIGHT ARE EXISTING TO REMAIN

0 ITEMS SHOWN HEAVY ARE NEW WORK

# -ELEVATOR NO. 4 - FLEVATOR ND. 5 - FREIGHT LEVEL 400

LEVEL 150

U 0 0 0 0

LEVEL 100

**OVERALL FLOOR PLANS** 

PANEL LOCATIONS

N

AND ASSESSMENT OF THE PARTY OF

to open agency from the still production assumed an exercise

#### LIGHTING FIXTURE SCHEDULE CATALOG NO WATTS 4° DIAMETER LED OPEN WALL WASH DOWNLIGHT CONSTRUCTED. LDN4-35/15-MVOLT-GZ10-HSG POMDE ALL REQUIRED 4\* DOWNETER LED D'EEN WALL WASH DOWNLIGHT CONSTRUCTED OF GALVANIZED STEEL, LIGHT SOURCE CONCEALED WITH DIFFUSING OPTICAL LENS, MULTI-VOLT BALLAST 4\* LED INDUSTRIAL STRIP CONSTRUCTED OF CODE GAUGE COLD MVOLT AS REQUIRED ZL1D-L48-SMR-5000LM-FST-277-40K-80CRI-WH ROLLED STEEL WITH SNAP ON SNAP OFF SYMEMETRIC WHITE MVOLT 4000K 5541 LUMENS 80 CRI SUSPENDED USER AND BAKED WHITE ENAMEL FINISH AND ELECTRONIC FEM-L48-LPPCL-MD-MVOLT-GZ10-40K-90CR-SURFACE MOUNTED LOW PROFILE ENCLOSED AND GASKETED LED FIXTURE CONSTRUCTED OF 5VA FIRERGLASS AND NEMA 4X WLFEND2-STS MVOLT 37.8 LED 4000K BORS LINENS WALL MOUNTED MULTI-VOLT BALLAST

IN-PROVIDE ALL MOUNTING FRAMES AND HARDWARE FOR A COMPLETE INSTALLATION SUTTABLE FOR CELLING TYPE:

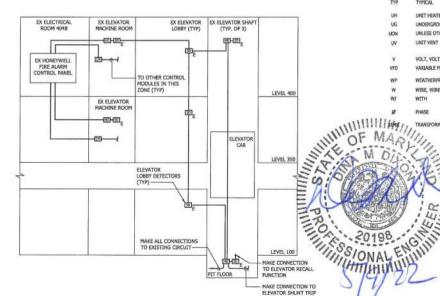
2. REFER TO INTERIOR LIGHTING SPECIFICATIONS FOR ADOITIONAL INFORMATION PROVIDE DRIVER FOR VOLTAGE AS INDICATED.

3. PRODUCTS WHICH MAY BE INCLUED INTO THE WORK ARE LIMITED TO MANUFACTURER AND MODEL NUMBER LISTED OR APPROVED EQUAL.

4. IN SPRINGERED AREAS, MAINTAIN ADEQUATE SPACING BETWEEN LIGHTING FIXTURES AND SPRINGER HEADS PER CITY FIRE MARSHAL REQUIREMENTS

5. INPUT WATTS EQUALS LAMP WATTS PLUS DRIVER WATTS. LED LUMEN OUTPUT IS DELIVERED LUMENS.

6. MANUFACTURERS CATALOG NUMBER LISTED FIRST IS BASIS OF DESIGN. MANUFACTURERS PRODUCTS SHALL INCLUDE ALL OPTIONS AND ACCESSORIES LISTED ON BASIS OF DESIGN FIXTURE.



PARTIAL SCHEMATIC FIRE RISER DIAGRAM NOTES:

1. PROVIDE MODIFICATIONS AND EXTENSIONS AS REQUIRED TO ACCOMMODATE NEW FIRE ALARM DEVICES

2. REFER TO FLOOR PLANS FOR EXACT DEVICE COUNT AND LOCATIONS. PROVIDE CONDUIT AND WIRING AS REQUIRED BY SYSTEM MANUFACTURER.

ABBREVIATIONS:

CIRCUIT

FNCLOSED CIRCUIT BREAKE

ELECTRIC DUCT HEATER

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER EXISTING

FIRE ALARM ANNUNCIATOR PANEL

GROUND FAULT INTERRUPTING DEVICE

INTERMEDIATE DISTRIBUTION FRAME

REACTIVE KILO VOLT AMPERES

FIRE ALARM CONTROL PANEL

FLECTRIC FAN

EMERGENCY ELECTRIC UNIT HEATER

RISE RISIBLE

FAN COLL LINET

GROUND

MON

LTG

MCB

MTD

GROUND WIRE

JUNCTION BOX

KILO VOLT AMPERES

KILO WATT AMPERES

MAIN CIRCUIT RREAKER

MAIN POINT OF PRESENC

MOUNTED

OVERHEAD

POLE POLES

RETURN AIR FAM

SUPPLY AIR FAN

UNDERGROUND

UNIT VENT

TYPICAL UNIT HEATER

REMOVE EXISTING

RIGID GALVANIZED STEE

PAIR

NOT IN CONTRACT

MAIN DISTRIBUTION FRAME MANUFACTURER MAIN LUGS ONLY

LOW VOLTAGE

HANDSLOSE AUTOMATIC

FAN POWERED BOX

FIRE ALARM

EXISTING TO REMAIN

DWG

AMP, AMPERE, AMPERES CONVENTION ABOVE FINISHED FLOOR ABOVE EINTENED CRADE CENTER AIR HANDLING UNIT AMPERE INTERRUPTING CAPACITY Gipe Associates Inc. Consulting Engineers

ALTERNATE AUTOMATIC TEMPERATURE CONTROL CONDUIT

BAI TIMORE

STRUCTUS CARROLL DACKHERNA,

votai von associates.
see une steet am, sums see
ansimostra de zones
an eze see sans

COST ESTIMAT MK CONGLITTIC PROPRESS LEC 3300 CLUTTER MAL ROMO, SUITE I PROPRESS NO 21211

SEAL

ITY OF BALTIMOR DEPARTMENT OF SENERAL SERVICE CAPITAL PROJECTS

BID SET

TELEPHONE TERMINAL BOARS

VOLT, VOLTS VARIABLE FREQUENCY DRIVE WP WEATHERPROOF WIRE, WIRES WITH

PHASE

LEVEL 100 & LEVEL 400

LEVEL 150

KEY PLAN

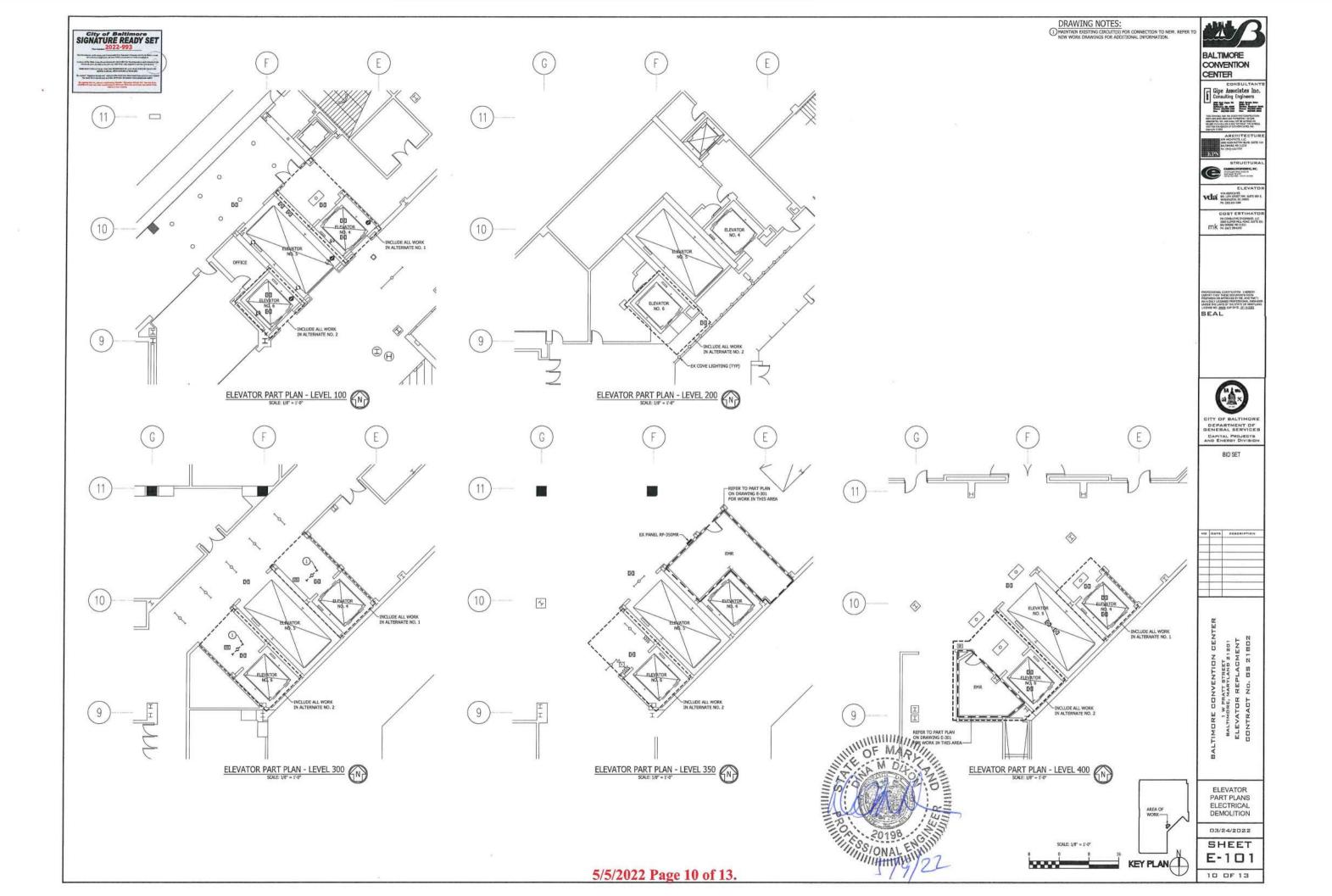
BALTIMORE, M ELEVATOR CONTRACT

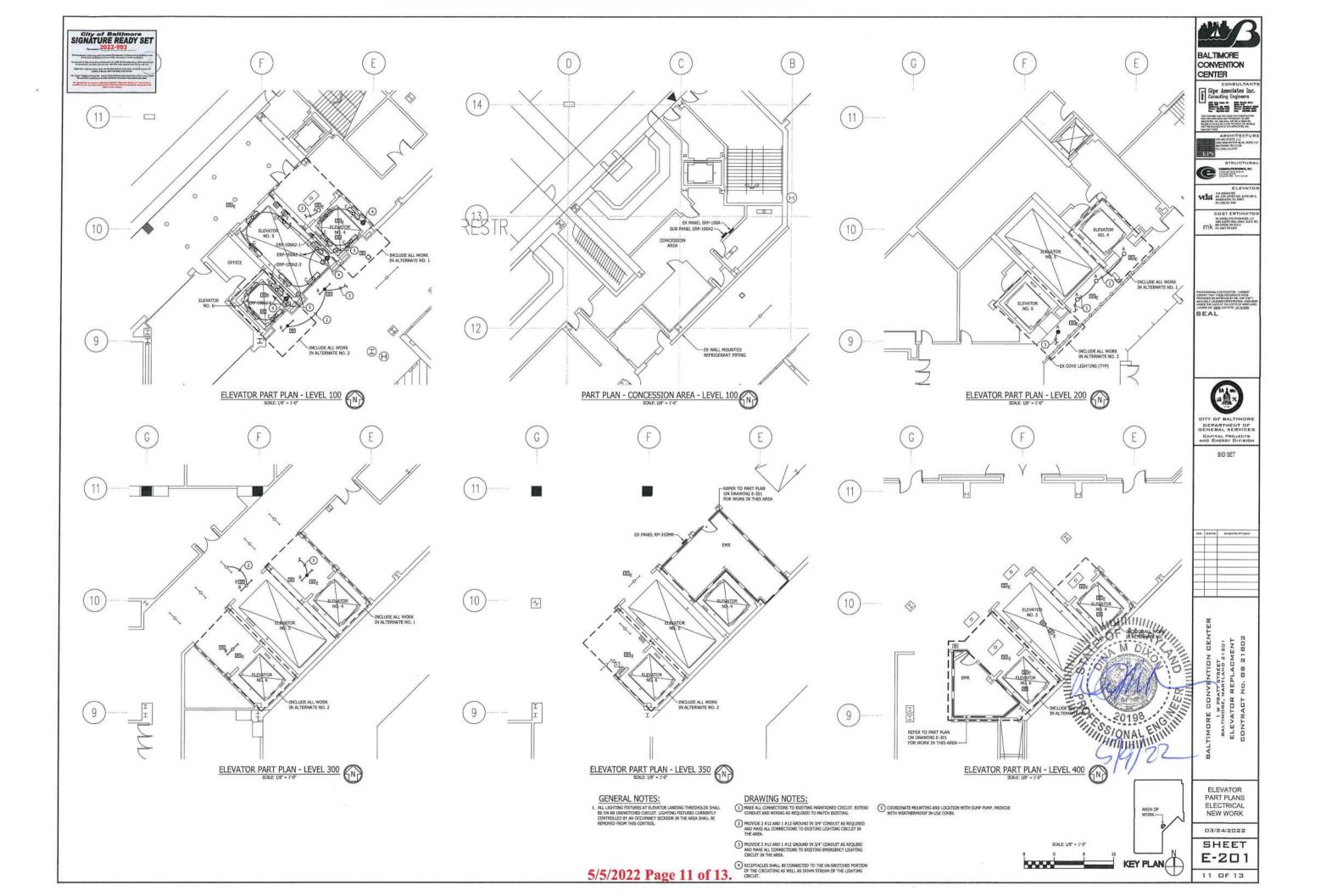
LEGEND, SCHEDULES & ABBREVIATIONS

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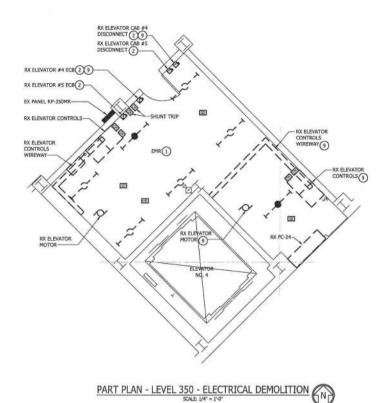
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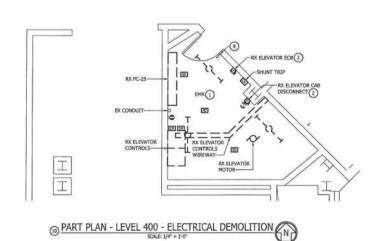
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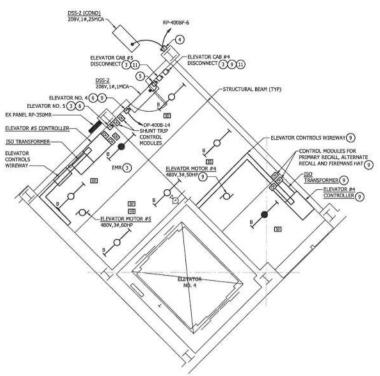


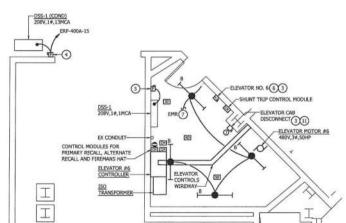




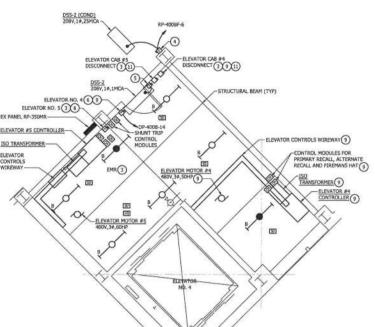




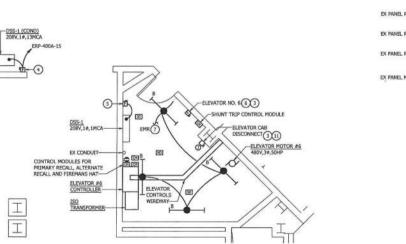








PART PLAN - LEVEL 350 - ELECTRICAL NEW WORK





- MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW.
- 3 MAKE ALL CONNECTIONS TO EXISTING MAINTAINED CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED TO MATCH EXISTING. (4) PROVIDE 2P, 30A FSS IN NEMA 1 ENCLOSURE FUSED PER MANUFACTURERS NAMEPLATE DATA. MOUNT AT UNIT AND MAKE ALL CONNECTIONS.
- (5) PROVIDE 3P, 30A FSS IN NEMA 1 ENCLOSURE FUSED PER MANUFACTURERS NAMEPLATE DATA. MOUNT AT UNIT AND MAKE ALL CONNECTIONS TO CONDENSING UNIT AS REQUIRED.
- (§) PROVIDE 3P, 200A NEMA 1 HEAVY DUTY SHANT TRIP FUSED DESCONNECT WITH (1) N.O. AND (1) N.C. AUXILIARY CONTACTS FUSED PER MANUFACTURESS NAMEDATE DATA FOR LEVATOR MOTOR. SWITCH SHALL BE EQUIPPED WITH LATCHING MECHANISM CAPABLE OF BEING LOCCED IN THE O'PEN FOSTION.
- PROVIDE 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT AS REQUIRED AND MAKE ALL CONNECTIONS TO EXISTING EMERGENCY LIGHTING CIRCUIT IN THE ROOM.
- 8 REMOVE NORMAL POWER TOGGLE SWITCH AND REPLACE COVERPLATE AS NECESSARY.
- 9 WORK SHALL BE UNDER ALTERNATE NO. 1.
- (10) WORK SHALL BE UNDER ALTERNATE NO. 2.
- (1) 2P, 30A NON-FUSED SAFETY SWITCH FOR ELEVATOR CAB LIGHTS AND FAN.



BALTIMORE CONVENTION CENTER

Gipe Associates Inc.
Consulting Engineers

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HIX CONSILTING ENGINEERS, LLC.
3300 CLETTE HILL ROAD, RUTTE IN
NUTRHOOD, NO 22-IN-1
PRE (NO.7) 201-1439



DEPARTMENT OF GENERAL BERVICES CAPITAL PROJECTS AND ENERGY DIVISION

BID SET

LTIMORE CONVENTION CENTER

1 W PRAIT STREET

BALTIMORE, MARYLAND 21201

ELEVATOR REPLAGMENT

CONTRACT NO. GS 21802

ELEVATOR MACHINE ROOM PART PLANS -ELECTRICAL

SHEET E-301 12 OF 13

PART PLAN - LEVEL 400 - ELECTRICAL RM 404B KEY PLAN

EX PANEL LCLP 400S1 EX PANEL ERP-400A



	UNTING: FREESTANDING		A.L.C. RA	TING:						LOCATION	: MAIN ELECTRICA	L RM
VO	TAGE: 480V, 3PH, 3W		AMPERE	MAIN	BUS 600	IA.				AMPERE N	MAIN 600A MCB	23,970
CKT			CIRCUI	TBREA	KER		V	/IRING				CON
NO	SERVES	P	FRAME	TRIP	SETS	NO	SIZE	GND	C		REMARKS	KV
1	EX WATER HEATER NO. 1	3	100	30			EXISTIN	G CIRCU	IT			
2	EX ELEVATOR NO. 4	3	100	100								
3	EX ESCALATOR NO. 10	3	100	45			EXISTIN	GCIRCU	T			
4	EX ESCALATOR NO. 11	3	100	45			EXISTIN	G CIRCU	T			
5	EX ESCALATOR NO. 12	3	100	45	6		EXISTIN	CIRCU	T			
6	EX ESCALATOR NO. 13	3	100	45			EXISTING	G CIRCU	T			
7	EX ESCALATOR NO. 20	3	100	45			EXISTING	CIRCU	т			
8	EX ESCALATOR NO. 21	3	100	45			EXISTING	CIRCU	Т			
9	EX ESCALATOR NO. 22	3	100	45			EXISTING	CIRCU	T			
10	EX ESCALATOR NO. 23	3	100	45			EXISTING	CIRCU	T	-		
11	EX ESCALATOR NO. 18	3	100	45			EXISTING	CIRCU	T			
12	EX ESCALATOR NO. 19	3	100	45			EXISTING	CIRCU	T			
13	EX ELEVATOR NO. 5	3	225	175			EXISTING	CIRCU	T			
14	SPACE	3	100			П						
15	SPACE	3	100									
13	SPACE	3	225									

MOUNTING: FREESTANDING VOLTAGE: 480V, 3PH, 3W			ALC. RA		BUS 600	IA.	LOCATION: MAIN ELECTRICAL RM AMPERE MAIN 600A MCB				
CKT			KER		v	IRING			CON		
NO	NO SERVES		FRAME	RAME TRIP		NO	SIZE	GND	С	REMARKS	KVA
1	EX WATER HEATER NO. 1	3	100	30			EXISTIN	G CIRCL	JIT		
2	SPARE	3	100	100							
3	EX ESCALATOR NO. 10	3	100	45			EXISTING	G CIRCU	JIT		
4	EX ESCALATOR NO. 11	3	100	45			EXISTIN	3 CIRCL	JIT		
5	EX ESCALATOR NO. 12	3	100	45			EXISTIN	CIRCU	JIT		
6	EX ESCALATOR NO. 13	3	100	45			EXISTING	CIRCL	JIT		
7	EX ESCALATOR NO. 20	3	100	45		7. 0	EXISTING	CIRCL	JIT		
8	EX ESCALATOR NO. 21	3	100	45			EXISTING	CIRCL	JIT		
9	EX ESCALATOR NO. 22	3	100	45			EXISTING	CIRCL	JIT .		
10	EX ESCALATOR NO. 23	3	100	45			EXISTING	CIRCL	AT.		
11	EX ESCALATOR NO. 18	3	100	45			EXISTING	CIRCL	JT.		
12	EX ESCALATOR NO. 19	3	100	45			EXISTING	CIRCL	AT		
13	EX ELEVATOR NO. 5	3	225	175			EXISTING	CIRCL	AT		60.8
14	ELEVATOR NO. 4	3	225	150	1	3	1	8	1-1/2	ALTERNATE NO. 1	51,3
15	SPACE	3	100								
13	SPACE	3	225				S		100-3		

CONN KVA C	CKT DESCRIPTION		200A M	CB						CESSED LL E CONCESSION STAND 19								
KVA C									100% RATE	DN	EUTRAL	BUS	3	22,000 A.I.C.				
		m	EAKER	CIRCUIT WIRING			RING			aR	BREAKER				UITWIRING			
	+ EV DEEDIO EVE SEE	IP	AMPS	NO	SIZE	GND	C	CK	DESCRIPTION	P AMPS		NO	SIZE	GND	C	KVA		
	1 EX REFRIG SYS 35F		30	EXISITING CIRCUIT			CUIT	2	EX WALK-IN FREEZER	3	25	EXISITING CIRCUIT			UIT			
	3 -	-						4							-			
	5 -							6			-		-					
	7 EX REFRIGERATOR SYS	3	20		EXISTIN	IG CIRC	CUIT	8	EX REFRIG SYS 35F	2	20		EXISTIN	G CIRC	UIT			
	9 -		2					10		-	-	-	-					
1	11 -	-	0.	-				12	EX REFRIGERATOR SYS	3	20	18	EXISTIN	G CIRC	UIT			
1	13 EX REFRIGERATOR SYS	3	20		EXISTIN	IG CIRC	UIT	14										
1	15 -			4	-	-		16	-	-	-	-						
1	17 -	-	-					18	EX SELF SERVE REFRIG	3	20		EXISTIN	G CIRC	UIT	11		
1	19 EX SELF SERVE REFRIG	1	20		EXISTING CIRCUIT		20			-								
2	21 EX ICE CREAM CABINET	1	15		EXISTING CIRCUIT			22		+								
2	23 EX REACH-IN REFRIG	1	20		EXISTIN	IG CIRC	TIU	24	EXISTING CIRCUIT	1	20	11	EXISTIN	G CIRCUIT				
2	25 EX REACH-IN REFRIG	1	20		EXISTIN	KS CIRC	UIT	26	EXUNDRIGAND R OF REF EQPT 81				EXISTIN	ISTING CIRCUIT				
2	27 EX WALK-IN REFRIG	1	20		EXISTIN	IG CIRC	TIUC	28	EX REACH-IN REFRIG				G CIRC	UIT				
2	29 EX SELF SERVE REFRIG	1	20	5-1	EXISTIN	G CIRC	TIUC	30	EX REFRIG SYS 35F	1	20	- 10	EXISTIN	G CIRC	UIT			
3	EX VENT CONT CAB	1	15		EXISTIN	G CIRC	UIT	32	EX VENT CONT CAB	1	20		EXISTIN	G CIRC	UIT			
3	S EX FIRE EXITING SYSTEM	1	20		EXISTIN	G CIRC	URT	34	EX FIRE EXITING SYSTEM	1	20		EXISTIN	G CIRC	UIT			
3	S EX WALK-IN REFRIG	1	20		EXISTIN	G CIRC	UIT	36	EXISTING CIRCUIT	1	20		EXISTIN	G CIRC	UIT			
3	7 EX ELEV 7 CONTROLS	1	20		EXISTIN	G CIRC	UIT	38	EXISTING CIRCUIT	1	20 •	E	XISTIN	G CIRC	UIT			
3	9 EX ELEV 3 CONTROLS	1	20		EXISTIN	G CIRC	TIU	40	SPACE	1								
4	II SPACE	1			3			42	SPACE	1		12.5						
OTAL CO	ONNECTED LOAD	0	KVA						KVA PER PHASE:	A	0	В	0	С	0			

MAIN	BUS	: 200A		200A N	IC8				_	100% RATED NEUTRAL BUS 22,00							
CONN			BR	EAKER		CIRCU	JIWIR	ING			BR	EAKER		CIRCL	IT WIF	ING	CON
KVA	CKT	DESCRIPTION	P	AMPS	NO	SIZE	GND	C	CK	DESCRIPTION	P	AMPS	NO	SIZE	GND	C	KVA
	1	EX REFRIG SYS 35F	3	30		EXISITING CIRCUIT			7 2	EX WALK-IN FREEZER	3	25	EXISIT		G CIRC	UIT	
	3		-						4	,							
	5		-		-		-		6								
	7	EX REFRIGERATOR SYS	3	20		EXISTIN	IG CIRC	UIT	8	EX REFRIG SYS 35F		2 20	- 33	EXISTIN	G CIRC	CUIT	
	9		1-	-			-		10	-			+	-			
	11								12	EX REFRIGERATOR SYS	3	20		EXISTIN	G CIRC	TILL	
	13	EX REFRIGERATOR SYS	3	20		EXISTIN	KG CIRC	UIT	14	-	-			-	-		
	15	•		-	-	-	-	-	16	-	-	1.4					
	17		1 -					- (*)	18	EX SELF SERVE REFRIG	3	20		EXISTIN	G CIRC	UIT	
	19	EX SELF SERVE REFRIG	1	20	- 10	EXISTIN	NG CIRCUIT		20						•		
	21	EX ICE CREAM CABINET	1	15		EXISTING CIRCUIT		22									
	23	EX REACH-IN REFRIG	1	20		EXISTING CIRCUIT EXISTING CIRCUIT EXISTING CIRCUIT				EXISTING CIRCUIT	1	20					
	25	EX REACH-IN REFRIG	1	20						EXUNORGINO R OF REF EQPT ST	1	20		EXISTIN	G CIRC		
	27	EX WALK-IN REFRIG	1	20						EX REACH-IN REFRIG	1	20	- 9	EXISTIN	G CIRC		
	29	EX SELF SERVE REFRIG	1	20	- 53	EXISTING CIRCUIT			30	EX REFRIG SYS 35F	1	20	- 9	UIT			
	31	EX VENT CONT CAB	1	15		EXISTING CIRCUI		UIT	32	EX VENT CONT CAB	1	20		EXISTIN	G CIRC	UIT	
	33	EX FIRE EXITING SYSTEM	1	20	EXISTING C		G CIRC	UIT	34	EX FIRE EXITING SYSTEM	1	20		EXISTIN	G CIRC	UIT	
	35	EX WALK-IN REFRIG	1	20		EXISTING		UIT	36	EXISTING CIRCUIT	1	20		EXISTIN	IG CIRCUIT		1
	37	EX ELEV 7 CONTROLS	1	20		EXISTIN	G CIRC	UIT	38	PANEL ERP-100AZ	3	60	4	4	10	1	2.2
	39	EX ELEV 3 CONTROLS	1	20		EXISTIN	G CIRC	UIT	40							1.4	1.1
	41	EXISTING CIRCUIT •	1	20		EXISTIN	G CIRC	UIT	42								1.1
DTAL	CON	NECTED LOAD	-	KVA						KVA PER PHASE:	A	22	В	1.1	С	1.1	

VOLT	AGE	P-100A2 : 208/120V, 3PH, 4W	MOUNTING: SURFACE  IO. 2 LOGATION: HALL E CONCESSION STAND														
MAIN BUS: 100A 60A									-	100% RATE	100% RATED NEUTRAL					22,000 A.	
CONN			BR	BREAKER		CIRCL	JIT WIR	ING			BREAKER			CIRCU	IT WIR	ING	CON
KVA	СКТ	DESCRIPTION	P	AMPS	NO	SIZE	GND	С	СКТ	DESCRIPTION	P	AMPS	NO	SIZE	GND	C	KVA
1.1	1	SUMP PUMP - ELEV NO. 4	1	20*	2	12	12	3/4	2	ELEV 4,5,6 - PIT LIGHTING	1	20	2	12	12	3/4	1,1
1.1	3	SUMP PUMP - ELEV NO. 5	1	20	2	12	12	3/4	4	SPARE	1	20	100	-110	100	1000	1000
1.1	5	SUMP PUMP - ELEV NO. 6	1	20**	2	12	12	3/4	6	SPARE	1	20					
1	7	SPACE	1	100				7-11.5	8	SPACE	1	1000				5	
	9	SPACE	1						10	SPACE	1						
	11	SPACE	1						12	SPACE	1		-				

MOUNTING: FREESTANDING VOLTAGE: 480V, 3PH, 3W			ALC. RA		BUS 250	LOCATION: UTILITY ROOM M161 AMPERE MAIN 250A MCB					
CKT			CIRCUI	KER		V	VIRING			CONF	
NO	SERVES	P	FRAME	TRIP	SETS	NO	SIZE	GND	С	REMARKS	KVA
1	EX MAIN BREAKER	3	250	250		EXISTING CIRCUIT			Т		
2	EX ELEVATOR NO. 6	3	225	150			EXISTING CIRCUIT				
3	SPARE	3	100	100							
4	SPARE	3	100	50							
5	SPACE	3									
8	SPACE	3									

MAIN	BUS	: 225A		125A M	CB					100% RATED NEUTRAL BUS 22,000 A.L.								
CONN	СКТ	DESCRIPTION	BRI P	EAKER AMPS	NO	SIZE	GND	ING C	СК	DESCRIPTION		EAKER AMPS	NO	CIRCU	GND	ING	CO	
	1	EX FAN COIL WALKIN BOX	1	20		EXISITN	G CIRC	TIUC	2	EXFEED FOR WON DR 300 LVL	1	20		EXISITN	G CIRC	UIT	$\Gamma$	
	3	EX FAN COIL WALKIN BOX	1	20		EXISTIN	G CIRC	CUIT	4	EX BMALL HOOD WICON KITCH	1	20		EXISTIN	G CIRC	UIT		
- 27	5	EX REC VIP (440) REFRIG	1	20		EXISTIN	G CIRC	CUIT	6	EX REC FOR REF VIP STE	1	20		EXISTIN	G CIRC	TILL		
	7	EX FAN COIL WALKIN BOX	1	20		EXISTIN	G CIRC	LINT	8	EX 110V FEED ELEV ONT RM 442	1	20		EXISTIN	G CIRC	CUST		
3/2	9	EX LRG LOAD WASH CONT KITCH	1	20		EXISTIN	G CIRC	TILL	10	EX FIRE ALRM PML 400 SOUTH	1	20		EXISTIN	G CIRC	CUST		
- 11	11	EX LRG LOAD WASH CONT KITCH	1	20		EXISTIN	G CIRC	UIT	12	EX NORTH IDE RM 300 LVL SOUTH	1	20	-	EXISTIN	GCIRC	TILL		
	13	SPACE	1						14	EX ATC DECA	1	20		EXISTIN	3 CIRC	UIT		
1.3	15	DSS-1	2	20	3	12	12	3/4	16	EX ATC DECA	1	20		EXISTIN	G CIRC	UIT		
1.3	17	ALTERNATE NO. 2	-					-	18	EX ATC DECA	1	20		EXISTIN	G CIRC	UIT		
	19	SPACE	1						20	EX SUPERIOR DINING CONT	1	20		EXISTIN	3 CIRC	UIT		
	21	SPACE	1						22	EX CONT PWR ELEV #5 RM 352	1	20		EXISTIN	3 CIRC	UIT		
	23	EX CONT PWR #2 ELEV 350L	1	20	U 1	EXISTIN	G CIRC	UIT	24	EXCONT PWR ELEV #4,5 RM 362	1	20		EXISTIN	3 CIRC	LIT		
13	25	EX CIRCUIT	1	20	1 )	EXISTIN	G CIRC	LIT	26	EXCONTROL POWER FOR CIRCUIT	2	40		DUSTIN	G CIRC	LIT		
	27	SPACE	1						28	BREAKER GEAR RM 438			-	-				
	29	EX REF WEST WALL KITCH	1	35		EXISTIN	G CIRC	UIT	30	EX UNIT HEATER RM 402C	1	20		DUSTIN	3 CIRC	UIT		
	31	EX REF WEST WALL KITCH	1	35		EXISTIN	G CIRC	UIT	32	EX FIRE ALRM PNL RM 402C	1	20		XISTIN	3 CIRC	UIT		
- 1	33	EX CIRCUIT	1	35	1 3	EXISTIN	G CIRC	UIT	34	SPACE	1	-	- 1					
	35	SPACE	1				100		36	SPACE	1							
	37	EX 350 CONTROL PANEL	3	30		EXISTIN	G CIRC	ULT	38	EX DOOR BY EAST VIP	1	35	E	XISTIN	CIRC	UIT		
	39	•							40	SPACE	1							
	41		-						42	SPACE	1							
TOTAL	CON	NECTED LOAD	3	KVA						KVA PER PHASE:	A	0	В	1.3	C	1.3		

EX PANEL RP-400BF (MOD)  VOLTAGE: 208/120V, 3PH, 4W  MAIN BUS: 400A  400A MLO											OM 404	В					
MAIN	BUS	400A		400A N	LO					100% RATE	10000	22,000 A.L					
CONN			BR	EAKER		CIRCI	AT WIR	ING	7		BR	EAKER		CIRCI	AT WIE	CONN	
KVA	CKT		P	AMPS	NO	SIZE	GND	С	СКТ	DESCRIPTION	P	AMPS	NO	SIZE	GND	С	KVA
	1		W 3	60		EXISIT	AG CIRC	UIT	2	SPACE							
	3	EAST WALL NORTH SIDE		-					4	SPACE	1						
	5	•		-					6	DSS-2	2	35	3	10	10	3/4	2.6
	7	SPACE	1						8	-					-		2.6
	9	SPACE	1						10	EX CIRCUIT	1	20		EXISTIN	IG CIRC	UIT	
	11	EX CIRCUIT	3	60		EXISTIN	IG CIRC	UIT	12	EX REC BALLRIM NE WALL	1	20	- 5	EXISTIN	4G CIRC	UIT	
	13			-				14	EX CIRCUIT	1	20		EXISTIN	G CIRC	UIT		
	15								16	EX REC ESC PIT 20 & 21	1	20	100	EXISTI	IG CIRC	TILL	
	17	EX CIRCUIT	3	60		EXISTIN	IG CIRC	UIT	18	EX REC ESC PIT 20 & 21	1	20		EXISTIN	G CIRC	UIT	
	19	-					*		20	EX REC BALLRM LOBBY NE	1	20		EXISTIN	IG CIRC	UIT	
	21			-		-			22	EX REC BATHROOM EAST	1	20		EXISTIN	AG CIRC	UIT	
	23	EXCIRCUIT	1	20	EXISTING CIRCUIT				24	EX REC BATHROOM EAST	1	20		EXISTIN	IG CIRC	UIT	
	25	EX CIRCUIT	1	20	EXISTING CIRCUIT					EX REC BATHROOM VIP	1	20		EXISTIN	IG CIRC	UIT	
	27	EX LIGHTING VIP SUITE	1	20	EXISTING CIRCUIT					EX REC BALLRM LOBBY NW	1	20		EXISTIN	IG CIRC	UIT	
	29	EX LIGHTING VIP SUITE	1	20	EXISTING CIRCUIT				30	EX CIRCUIT	1	20		EXISTIN	IG CIRC	TIU	
	31	EX CIRCUIT	1	20		EXISTIN	IG CIRC	UIT	32	EX CIRCUIT	1	20		EXISTIN	IG CIRC	TIU	
	33	EX WATER COOLER EAST	1	20		EXISTIN	IG CIRC	uit	34	EX REC ESC PIT 12 & 13	1	20		EXISTIN	IG CIRC	UIT	
	35	EX WATER COOLER EAST	1	20		EXISTIN	IG CIRC	UIT	36	SPACE	1						
	37	EX CIRCUIT	3	60	10	EXISTING CIRCUIT			38	SPACE	1					2	
	39		-			- 2			40	SPACE	1						
	41						-		42	SPACE	1				9		

GENERAL NOTES:
PROVIDE NEW CIRCUIT BREAKERS IN EXISTING TO REMAIN PANELS (SHOWN BOLD IN SCHEDULE). NEW CIRCUIT BREAKER SHALL MATCH EXISTING MANUFACTURER, STYLE, TYPE AND SHORT CIRCUIT PATING.

DRAWING NOTES:

EXISTING CIRCUIT BREAKER SHALL BE REMOVED AND RELOCATED TO SPACE 41 WITHIN PANELBOARD. EXTEND EXISTING CIRCUITING AS REQUIRED.



BALTIMORE CONVENTION

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PANEL SCHEDULES

03/24/2022

SHEET E-401

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