PROPOSED WHITE BOX FIT-OUT:

STOCKTON ATLANTIC CITY CAMPUS - RESIDENTIAL COMPLEX

2020

3701 BOARDWALK
ATLANTIC COUNTY

ATLANTIC CITY
NEW JERSEY

PLAN REVIEW DATA

APPLICABLE CODES AND STANDARDS

UNIFORM CONSTRUCTION CODE STATE OF NEW JERSEY, LATEST EDITION AND ALL OF ITS SUBCODES AND AMENDMENTS (N.J. REHAB SUB CODE)

NEW JERSEY REHABILITATION SUBCODE 5:23-6
INTERNATIONAL BUILDING CODE / 2015 NJ EDITION
INTERNATIONAL RESIDENTIAL CODE / 2015 NJ EDITION
INTERNATIONAL MECHANICAL CODE / 2015
INTERNATIONAL FUEL GAS CODE / 2015
ASHRAE 90.1 - 2013 (COMMERCIAL)
INTERNATIONAL ENERGY CONSERVATION CODE - NJ ED. 2015 (RESIDENTIAL)
NATIONAL STANDARD PLUMBING CODE / 2015
NATIONAL ELECTRIC CODE / 2014
ANSI A117.1-2009
WFCM (WOOD FRAMED CONSTRUCTION) HIGH WIND AREAS FOR ONE & TWO FAMILY DWELLINGS

OCCUPANCY CLASSIFICATION

USE GROUP	M (RETAIL) - EXISTING - NO CHANGE
OCCUPANT LOAD	EXISTING - NO CHANGE

CONSTRUCTION CLASSIFICATION

PER TABLE (504.3 & 504.4) SECTION (306.2)

TYPE	2A - EXISTING - NO CHANGE
ALLOWANCE AREA	EXISTING - NO CHANGE
ALLOWANCE HEIGHT	EXISTING - NO CHANGE

BUILDING ELEMENT — FIRE RESISTANCE RATINGS

PER TABLE (601) SECTION (602)

• STRUCTURAL FRAME (a) (INCLUDING COLUMNS, GIRDERS, TRUSSES)	1 HOURS
• BEARING WALLS	
EXTERIOR (f)	1 HOURS
INTERIOR	1 HOURS
• NON BEARING WALLS & PARTITIONS (TABLE 602)	
EXTERIOR	0 HOURS
INTERIOR (e)	0 HOURS
• FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	1 HOURS
• ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	1 HOURS
• FIRE WALLS (706.4)	3 HOURS
• FIRE BARRIERS (707.3.10)	2 HOURS
• FIRE PARTITIONS (708.3)	1 HOUR
• SHAFTS (713.4)	2 HOUR
• EXIT ACCESS CORRIDORS (1020.1)	1 HOUR

EXISTING - NO CHANGE

BUILDING CHARACTERISTICS

NUMBER OF STORIES	EXISTING - NO CHANGE	
HEIGHT OF STRUCTURE	EXISTING - NO CHANGE	
AREA OF RENOVATION	BASE BID - RETAIL SPACE "C"	+/- 2,780 SQ. FT.
	ALTERNATE - RETAIL SPACE "D"	+/- 4,400 SQ. FT.
	TOTAL AREA OF RENOVATION	+/- 7,180 SQ. FT.

BUILDING DESIGN LOADS

PER CHAPTER 16

FLOORS	100 PSF LL (RETAIL FIRST FLOOR)
ROOF	20 PSF LL MIN
GROUND SNOW LOADS	30 PSF
BASIC WIND SPEED	130 MPH

EXISTING NO CHANGE

AUTOMATIC SPRINKLER SYSTEMS

PER SECTION 903

THE AREA OF WORK IS EQUIPPED WITH AN EXISTING AUTOMATIC SPRINKLER SYSTEM. THE EXISTING SYSTEM IS TO BE MODIFIED AS REQUIRED TO SUIT NEW LAYOUT. REFER TO FIRE PROTECTION DRAWINGS. THE EXISTING SYSTEM WILL REMAIN OPERATIONAL DURING CONSTRUCTION.

INTERIOR FINISH NOTES

INT. FINISHES SHALL COMPLY W/ SECTION (803.11) & SHALL HAVE A FLAME SPREAD RATING AS OUTLINED BELOW:

M	REQ'D VERT. EXITS AND PASSAGEWAYS	B	FLAME SPREAD 26-75	SMOKE DEVELOPES 0-450
	EXIT ACCESS CORRIDORS	C	FLAME SPREAD 76-200	SMOKE DEVELOPES 0-450
	ROOMS AND ENCLOSED SPACES	C	FLAME SPREAD 76-200	SMOKE DEVELOPES 0-450

ALL INTERIOR FINISHES AT BATHROOMS SHALL BE MOISTURE RESISTANT & WASHABLE

STANDARD ABBREVIATIONS

ABOVE FINISH FLOOR	A.F.F.	FIRE EXTINGUISHER	F.E.	MASONRY	MAS.	SAFETY	SFTY.
ACOUSTICAL CEILING TILE	A.C.T.	FLOOR	FL./FLR.	MASONRY OPENING	M.O.	SCHEDULE	SCHED.
AIR CONDITIONING	A/C	FLOOR DRAIN	F.D.	MAXIMUM	MAX.	SECTION	SECT.
ALTERNATE	ALT.	FLOOR SINK	F.S.	MECHANICAL	MECH.	SOLID CORE	SC.
ALUMINUM	ALUM.	FLUORESCENT	FLUOR.	MEMBRANE	MEMB.	SHEET	SHT.
APPROVED	APPD./APPV'D	FOOTING	FTG.	MINIMUM/MINUTE	MIN.	SIMILAR	SIM.
AT	@	FURNISH	FURN.	MISCELLANEOUS	MISC.	SPECIFICATIONS	SPEC.
		FURRING	FURR.			SQUARE	SQ.
BLOCK	BLK.			NORTH	N.	SQUARE FOOT	S.F.
BLOCKING	BLKG.	GAUGE	GA.	NOMINAL	NOM.	STAINLESS STEEL	S.S.
BOARD	BD.	GALVANIZED	GALV.	NOT IN CONTRACT	N.I.C.	STEEL	STL.
BUILDING	BLDG.	GENERAL, GENERATOR	GEN.	NOT TO SCALE	N.T.S.	STORAGE	STOR.
		GENERAL CONTRACTOR(OR)	G.C.	NUMBER	NO.	STORAGE CLOSET	ST. CL.
CARPET	CPT.	GLASS, GLAZING	GL.				
CEILING	CLG.	GRADE	GR.	OFFICE	OFF.	TOTAL LOAD	T.L.
CENTERLINE	℄	GYPSUM WALLBOARD	G.W.B./GYP. BD.	ON CENTER	O.C.	TOP OF DECK	T.O.D.
CERAMIC	CER.	GROUND FAULT INTERRUPTER	G.F.I.	OPENING	OPNG.	TOP OF FOOTING	T.O.F.
CERAMIC TILE	C.T.			OUTSIDE DIAMETER (DIMENSION)	O.D.	TOP OF MASONRY	T.O.M.
COATS	CTS.	HARDWARE	HDW./HDW'R.	OVERHEAD	O.H.	TOP OF PIER	T.O.P.
COLD WATER	C.W.	HARDWOOD	HWD.			TOP OF SLAB	T.O.S.
COLUMN	COL.	HEATING/VENTILATING/AIR CONDITIONING	H.V.A.C.	PAINT	PT.	TOP OF STEEL	T.O.STL.
CONCRETE	CONC.	HEIGHT	HT.	PAINTED	PTD.	TOP OF WALL	T.O.W.
CONCRETE MASONRY UNIT	C.M.U.	HIGH POINT	H.P.	PARTITION	PART'N.	TYPICAL	TYP.
CONTINUOUS/CONTINUE	CONT.	HOLLOW CORE	H.C.	PARALLEL STRAND LUMBER	P.S.L.	TREAD	T
CONTRACTOR	CONTR.	HOLLOW METAL	H.M.	PLASTER	PLAS.		
CONTROL JOINT	C.J.	HOLLOW METAL FRAME	H.M.F	PLASTIC LAMINATE	P.LAM.	UNDERWRITERS LABORATORIES	U.L.
CLEAN OUT	C.O.	HOSE BIB	H.B.	PLATE	PL.	UNFINISHED	UNF.
		HOT WATER	H.W.	PLUMBING	PLBG.	UNIFORM BUILDING CODE	U.B.C.
DEAD LOAD	D.L.	HOUR	HR.	POLYVINYL CHLORIDE	P.V.C.		
DEMOLISH, DEMOLITION	DEMO.			POUNDS PER CUBIC FOOT	P.C.F.	VINYL COMPOSITION TILE	V.C.T.
DIAMETER	DIA./ Ø	INSULATION	INSUL.	POUNDS PER LINEAL FOOT	P.L.F.	VINYL WALL COVERING	V.W.C.
DIFFUSER	DIFF.	INTERIOR	INT.	POUNDS PER SQUARE FOOT	P.S.F.	VERTICAL	VERT.
DIMENSION	DIM.	INVERT	INV.	POUNDS PER SQUARE INCH	P.S.I.	VESTIBULE	VEST.
DOWN	DN.			PREFABRICATED	PREFAB.	VERIFY IN FIELD	V.I.F.
DITTO	"do"	JOINT	JT.	QUARRY TILE	Q.T.	WATER CLOSET	W.C.
EQUAL	EQ.	LAMINATE(D)	LAM.	RADIUS	RAD.	WATERPROOF, WEATHERPROOF	W.P.
EQUIPMENT	EQUIP.	LAMINATED VENEER LUMBER	L.V.L.	REFERENCE	REF.	WELDED WIRE FABRIC	W.W.F.
EXISTING	EXIST./EXIST'G	LAVATORY	LAV.	REINFORCE, REINFORCING	REINF.	WELDED WIRE MESH	W.W.M.
EXTERIOR	EXT.	LIVE LOAD	LL.	REQUIRED	REQ./REQ'D.	WIRE GLASS	W.GL.
		LOUVER	LVR./LOUV.	RISER	R	WITH	W/
FLOOR CLEAN OUT	F.C.O.			ROOF DRAIN	RD.	WITHOUT	W/O
FEET, FOOT	FT.	MAINTENANCE/MAINTAIN	MAINT.	ROOF SCUPPER	R.S.	WOOD	WD.
FINISH	FIN.	MANUFACTURER	MFR./MANUF.	ROUGH OPENING	R.O.		
FINISH FLOOR	F.F.						

NOTE: THIS LIST REPRESENTS ABBREVIATIONS THAT MAY OR MAY NOT APPEAR IN THESE DOCUMENTS. CONTACT YEZZI ASSOCIATES FOR ANY CLARIFICATIONS REGARDING THE ABBREVIATIONS

SYMBOL KEY

DETAIL NUMBER / X-X / SHEET NUMBER — DETAIL CALLOUT

ROOM NAME / 100 — ROOM IDENTIFICATION

X — COLUMN MARK

E — EXIST'G ENTITY TO REMAIN

SECT. NUMBER / X / X-X / SHEET NUMBER — SECTION CALLOUT

DOOR NUMBER / XX / XXX — DOOR CALLOUT / ROOM NUMBER

X — WALL TYPE KEY

EXT. ELEV. NUMBER / X / X-X / SHEET NUMBER — EXTERIOR ELEVATION CALLOUT

EXTERIOR / E / XX — EXTERIOR WINDOW CALLOUT / WINDOW NUMBER

ELEVATION MARK

INT. ELEV. NUMBER / XX / XX-X-XX / XX / SHEET NUMBER — INTERIOR ELEVATION CALLOUT

INTERIOR / XX / WINDOW NUMBER — INTERIOR WINDOW CALLOUT

N — NORTH ARROW

NOTES

1. DO NOT SCALE DRAWINGS.
2. FIELD CHECK ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION.
3. WHERE THERE MAY BE A CONFLICT BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITIONS THE CONTRACTOR SHALL NOTIFY THE ARCHITECTS WHO WILL MAKE THE NECESSARY REVISIONS.
4. PLANS TO CONFORM WITH THE STRUCTURE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.
5. ALL EXISTING WORK TO REMAIN MUST BE PROTECTED. ANY SUCH WORK DAMAGED IN THE COURSE OF CONSTRUCTION WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
6. ALL ITEMS TO BE REMOVED AND REUSED THAT ARE DAMAGED AND NOT REUSABLE SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
7. THE CONTRACTOR SHALL MAINTAIN THE THERMAL AND ACOUSTICAL PROPERTIES OF THE BUILDING DURING CONSTRUCTION.
8. AT THE END OF EACH WORKING DAY THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION RUBBLE FROM THE SITE.
9. ALL ITEMS MARKED ON THE DRAWINGS TO BE REMOVED SHALL ALSO MEAN PATCH TO MATCH SURROUNDING CONDITIONS.
10. ALL TRADES TO COORDINATE THEIR WORK SO THERE WILL BE NO DUPLICATION OF WORK.
11. ALL TRADES TO DO THEIR OWN CUTTING AND PATCHING UNLESS OTHERWISE NOTED ON THE DRAWINGS.
12. THE CONTRACTOR SHALL EXAMINE ALL EXISTING CONDITIONS PRIOR TO BIDDING AND STARTING CONSTRUCTION & TAKE PHOTOGRAPHS OF ALL EXISTING CONDITIONS. ANY ALTERATIONS TO EXISTING STRUCTURE REQUIRED FOR PROPER INSTALLATION OF NEW WORK SHALL BE DONE BY THE CONTRACTOR AT HIS OWN EXPENSE, BUT ONLY AS APPROVED BY THE ARCHITECT.
13. THE GENERAL CONTRACTOR SHOULD EXAMINE THE M.E.P. DRAWINGS TO SEE THE EXTENT OF THE ENGINEERING CHANGES TO BE MADE TO THE BUILDING.
14. THE CONTRACTOR SHALL PROTECT THE EXISTING BUILDING FROM ANY POSSIBLE WATER DAMAGE. ANY REPAIRS AS A RESULT OF DAMAGE WILL BE PAID BY THE CONTRACTOR.
15. ALL EXISTING UTILITIES IN CONFLICT WITH THE WORK SHALL BE TURNED OFF BY THE CONTRACTOR / UTILITY COMPANIES PRIOR TO START OF DEMOLITION / CONSTRUCTION.

SCOPE OF WORK

SCOPE OF WORK

AT THE ATLANTIC CITY CAMPUS RESIDENTIAL COMPLEX THE UNIVERSITY IS PROPOSING A WHITE-BOX FIT-OUT TO TWO EXISTING RETAILS SPACES, "C" & "D".

THE WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO;

BUILDING - THE REMOVAL AND REPLACEMENT OF THE EXISTING WALLS, CEILINGS, FINISHES, ETC. ALONG WITH THE INSTALLATION OF NEW WALLS, DOORS, FRAMES, CONCRETE SLABS, FINISHES, RESTROOMS ETC.

ELECTRICAL - THE RELOCATION OF EXISTING ELECTRICAL PANELS, TRANSFORMERS, ETC. TO DEDICATED ELECTRICAL ROOMS. THE REMOVAL, RELOCATION, AND MODIFICATION OF EXISTING, AND THE INSTALLATION OF PROPOSED RECEPTACLES, SWITCHES, LIGHTING, ETC. TO SUIT THE NEW LAYOUT.

FIRE - THE REMOVAL, RELOCATION, AND MODIFICATION OF EXISTING, AND THE INSTALLATION OF PROPOSED FIRE ALARM DEVICES, SPRINKLER HEADS, ETC. TO SUIT THE NEW LAYOUT.

MECHANICAL - THE REMOVAL, RELOCATION, AND MODIFICATION OF EXISTING, AND THE INSTALLATION OF PROPOSED HVAC UNITS, DUCTWORK, DIFFUSERS, THERMOSTATS, ETC. TO SUIT THE NEW LAYOUT.

PLUMBING - THE INSTALLATION OF NEW WATER CLOSETS, LAVATORIES, SINKS, ETC., TIED TO EXITING WATER, SANITARY, AND VENT PIPING.

BASE BID

ALL WORK ASSOCIATED WITH RETAIL SPACE "C" IS TO BE CONSIDERED BASE BID (TYP.)

ALTERNATES

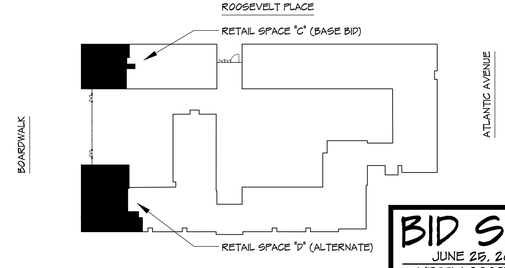
1 ALTERNATE #1 - RETAIL SPACE "D" ADD ALTERNATE:

STATE THE AMOUNT, ON THE BID PROPOSAL FORM, TO BE ADDED TO THE BASE BID IF ALL WORK ASSOCIATED WITH RETAIL SPACE "D" IS ADDED TO THE PROJECTS SCOPE OF WORK.

REFER TO BID PROPOSAL FOR FOR ADDITIONAL INFORMATION.

INDEX OF DRAWING'S

KEY PLAN



BID SET
JUNE 25, 2020
YEZZI ASSOCIATES
ARCHITECTS PLANNERS

Do Not Scale Drawings - Field check all dimensions prior to start of construction.

STOCKTON UNIVERSITY — AN ENVIRONMENT FOR EXCELLENCE

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Seal

Signature Date

PROPOSED WHITE BOX FIT-OUT
STOCKTON ATLANTIC CITY CAMPUS
RESIDENTIAL COMPLEX
3701 BOARDWALK
ATLANTIC COUNTY
ATLANTIC CITY
NEW JERSEY

Project

Project Bid Date
JUNE 25, 2020

Revisions	By	Date

Sheet Title
PROJECT DATA, CODE RESEARCH, & SCOPE OF WORK

Drawn By	Sheet No.
DS	1
Chk'd By	OF
MFY	49

Sheet No.
CODE

Project No.
YC20117

SYMBOL LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NOT IN CONTRACT
- EXISTING PHOTO LOCATION & DIRECTION CALLOUT
- EXISTING STOREFRONT, DOOR & WINDOW TO REMAIN, NO CHANGE
- EXISTING POWER RECEPTACLE (TYP.)
- EXISTING FIRE ALARM MANUAL PULL STATION (TYP.)
- EXISTING FIRE ALARM AUDIO / VISUAL DEVICE (TYP.)
- EXISTING THERMOSTAT (TYP.)
- EXISTING DATA RECEPTACLE (TYP.)
- EXISTING ELECTRICAL PANEL (TYP.)
- EXISTING TRANSFORMER (TYP.)
- EXISTING ELECTRICAL CABINET (TYP.)

NOTE

THE PHOTOGRAPHS AND DEMOLITION PLAN INDICATED ON THIS DRAWING ARE FOR REFERENCE ONLY TO INDICATE THE EXISTING BUILDING CONDITIONS AT THE TIME OF OUR FIELD INSPECTION. ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE GENERAL CONTRACTORS SCOPE OF WORK.

GENERAL SELECTIVE DEMOLITION NOTES

PREPARATION

1. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AT DOORWAYS WITH CODE REQUIRED SECURITY DEVICES.
2. NOTIFY OWNER OF WORK WHICH MAY AFFECT THEIR PROPERTY, POTENTIAL NOISE, UTILITY OUTAGE, OR DISRUPTION. COORDINATE ALL WORK WITH OWNER.
3. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING AS REQUIRED.
4. ERECT AND MAINTAIN TEMPORARY PARTITIONS TO PREVENT SPREAD OF DUST, ODORS AND NOISE TO PERMIT CONTINUED OWNER OCCUPANCY.
5. PROTECT EXISTING ITEMS INDICATED TO REMAIN.

DEMOLITION REQUIREMENTS:

1. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE TO ADJACENT AREAS.
2. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO ADJACENT ACCESSES.
3. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
4. CEASE OPERATIONS IMMEDIATELY WHEN ADJACENT STRUCTURAL COMPONENTS APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION AND A/E.

SELECTIVE DEMOLITION:

1. DEMOLISH AND REMOVE COMPONENTS IN ORDERLY AND CAREFUL MANNER, IN SEQUENCE OUTLINED IN SUBMITTED AND APPROVED SCHEDULE.
2. PROTECT EXISTING SUPPORTING STRUCTURAL MEMBERS.

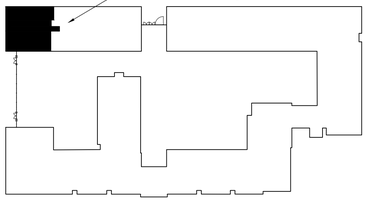
CLEAN UP:

1. REMOVE DEMOLISHED MATERIALS FROM SITE AS WORK PROGRESSES.
2. LEAVE AREAS OF WORK IN CLEAN CONDITION.
3. DISPOSE OF ALL DEBRIS IN ACCORDANCE WITH ALL STATE AND MUNICIPAL REQUIREMENTS. PROVIDE LOAD TICKETS WHERE APPLICABLE.

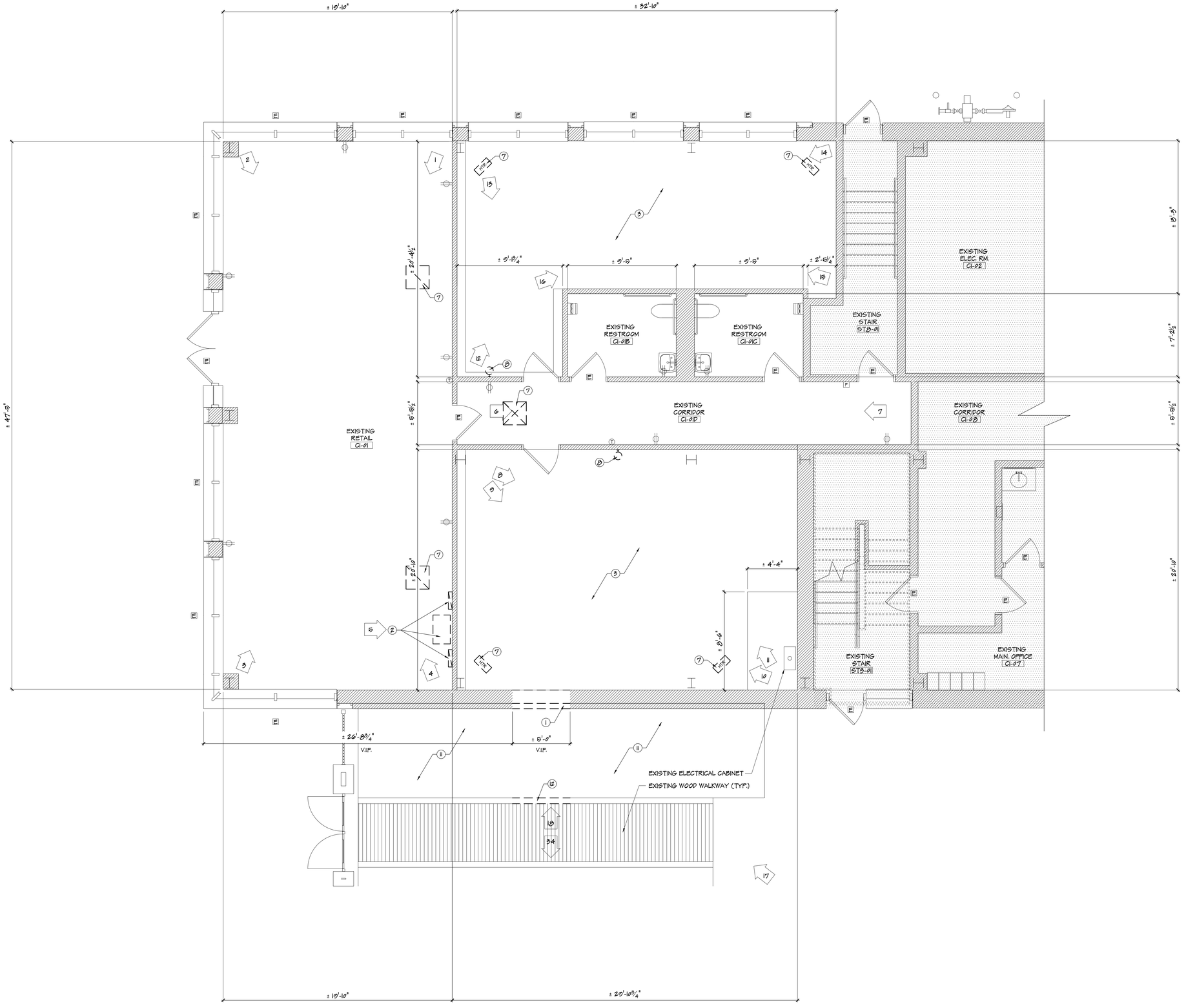
TAGGED DEMOLITION NOTES

1. PORTION OF EXISTING WALL TO BE REMOVED TO ALLOW FOR INSTALLATION OF NEW DOOR AS INDICATED ON THE DRAWINGS. PATCH TO MATCH SURROUNDING FINISHES (TYP.)
2. EXISTING ELECTRICAL COMPONENTS TO BE REMOVED / RELOCATED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)
3. MISCELLANEOUS DEBRIS TO BE REMOVED. PREP EXISTING GRADE FOR INSTALLATION OF NEW CONCRETE SLAB AS INDICATED ON THE DRAWINGS (TYP.)
4. EXISTING FIRE ALARM COMPONENTS TO BE REMOVED / RELOCATED. REFER TO FA DRAWINGS FOR ADDITIONAL INFO. (TYP.)
5. EXISTING DATA RECEPTACLE TO BE REMOVED / RELOCATED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)
6. EXISTING DOOR, FRAME, HARDWARE, AND ALL RELATED ITEMS TO BE REMOVED, RELOCATED, OR TURNED OVER TO THE OWNER (TYP.)
7. EXISTING MECHANICAL COMPONENTS TO BE REMOVED / RELOCATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)
8. EXISTING LIGHTING TO BE REMOVED / RELOCATED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)
9. EXISTING CEILING TILE AND GRID TO BE REMOVED (TYP.)
10. EXISTING SPRINKLER HEAD TO BE REMOVED / RELOCATED. REFER TO FP DRAWINGS FOR ADDITIONAL INFO. (TYP.)
11. EXISTING SHRUBS AT THIS AREA ARE TO BE REMOVED & TURNED OVER TO THE OWNER TO ALLOW FOR INSTALLATION OF NEW HVAC EQUIPMENT & DOOR (TYP.)
12. PORTION OF EXITING WOOD RAIL TO BE REMOVED TO ALLOW FOR INSTALLATION OF NEW PERMEABLE PAVER WALKWAY (TYP.)

RETAIL SPACE "C" (BASE BID)



KEY PLAN



1 / D-1 PARTIAL PROPOSED DEMOLITION PLAN - RETAIL SPACE "C"
SCALE: 1/4" = 1'-0"

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Architect No. 75372 -NCARB

Seal

Signature Date

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ATLANTIC CITY
NEW JERSEY

Project

Project Bid Date
JUNE 25, 2020

Revisions	By	Date

Sheet Title
RETAIL SPACE "C"
PARTIAL PROPOSED
DEMOLITION PLAN

Drawn By	
DS	2
Chk'd By	OF
MFY	40

Sheet No.
D-1
BASE BID

Project No.
YC2011?

Do Not Scale Drawings - Field check all dimensions prior to start of construction.

SYMBOL LEGEND

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PREPARATION

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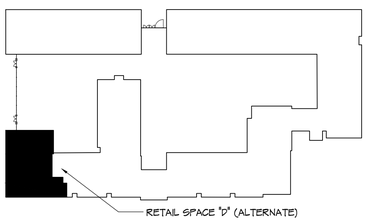
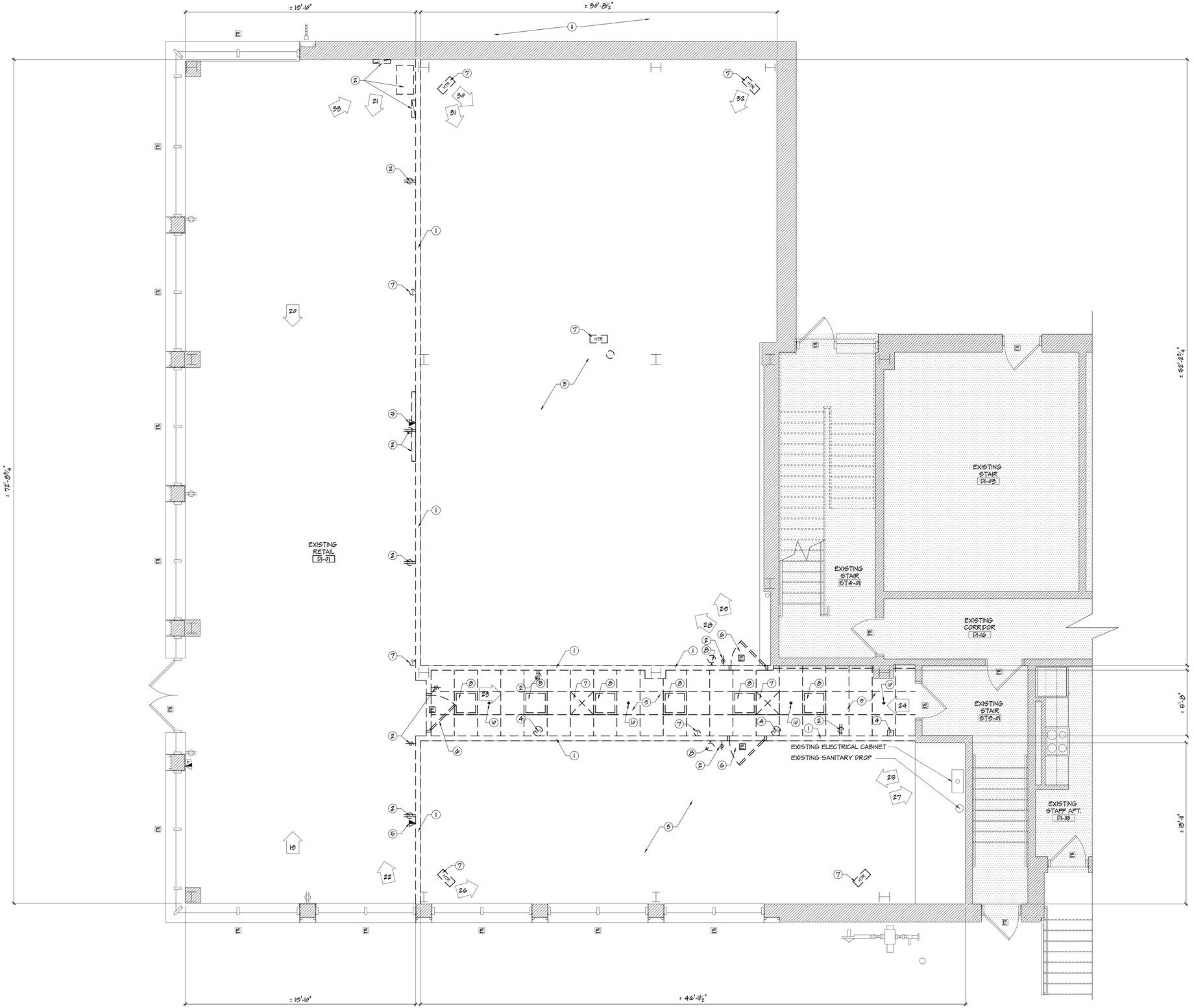
2. EXISTING ELECTRICAL COMPONENTS TO BE REMOVED / RELOCATED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)
3. MISCELLANEOUS DEBRIS TO BE REMOVED. PREP EXISTING GRADE FOR INSTALLATION OF NEW CONCRETE SLAB AS INDICATED ON THE DRAWINGS (TYP.)
4. EXISTING FIRE ALARM COMPONENTS TO BE REMOVED / RELOCATED. REFER TO FA DRAWINGS FOR ADDITIONAL INFO. (TYP.)
5. EXISTING DATA RECEPTACLE TO BE REMOVED / RELOCATED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)
6. EXISTING DOOR, FRAME, HARDWARE, AND ALL RELATED ITEMS TO BE REMOVED, RELOCATED, OR TURNED OVER TO THE OWNER (TYP.)
7. EXISTING MECHANICAL COMPONENTS TO BE REMOVED / RELOCATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)
8. EXISTING LIGHTING TO BE REMOVED / RELOCATED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)
9. EXISTING CEILING TILE AND GRID TO BE REMOVED (TYP.)
10. EXISTING SPRINKLER HEAD TO BE REMOVED / RELOCATED. REFER TO FP DRAWINGS FOR ADDITIONAL INFO. (TYP.)
11. EXISTING SHRUBS AT THIS AREA ARE TO BE REMOVED & TURNED OVER TO THE OWNER TO ALLOW FOR INSTALLATION OF NEW HVAC EQUIPMENT & DOOR (TYP.)
12. PORTION OF EXITING WOOD RAIL TO BE REMOVED TO ALLOW FOR INSTALLATION OF NEW PERMEABLE PAVER WALKWAY (TYP.)



KEY PLAN



1 / D-2 PARTIAL PROPOSED DEMOLITION PLAN - RETAIL SPACE "D"
SCALE: 1/4" = 1'-0"

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Architect No. 75372 -NCARB

Seal

Signature Date

PROPOSED WHITE BOX FIT-OUT
STOCKTON ATLANTIC CITY CAMPUS
RESIDENTIAL COMPLEX
ATLANTIC CITY
NEW JERSEY
Project
870 BOARDWALK
ATLANTIC COUNTY

Project Bid Date
JUNE 25, 2020

Revisions By Date

Sheet Title
RETAIL SPACE "D"
PARTIAL PROPOSED
DEMOLITION PLAN

Drawn By: DS
Chk'd By: MFY
3 OF 43

Sheet No.
D-2
ALTERNATE

Project No.
YC2017

Do Not Scale Drawings - Field check all dimensions prior to start of construction.

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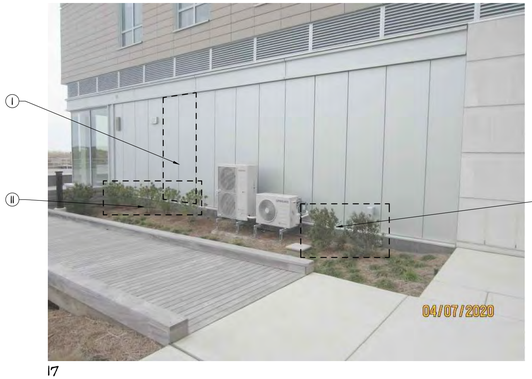

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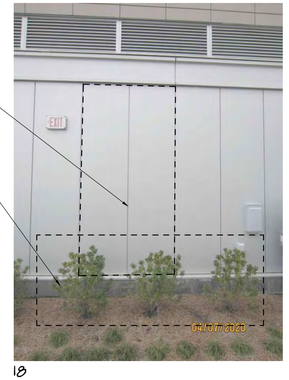

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1 / D-3 EXISTING CONDITION PHOTOGRAPHS - RETAIL SPACE "C"
SCALE: N.T.S.

NOTE
THE PHOTOGRAPHS INDICATED ON THESE DRAWINGS ARE FOR REFERENCE ONLY TO INDICATE THE EXISTING BUILDING CONDITIONS AT THE TIME OF OUR FIELD INSPECTION. ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE GENERAL CONTRACTORS SCOPE OF WORK. THE GENERAL CONTRACTOR IS TO COORDINATE THE EXTENT OF DEMOLISH WITH THE ENTIRE SET OF DRAWINGS AND FIELD CONDITIONS.

NOTE
REFER TO DEMO PLANS FOR THE PHOTO LOCATION TAGS & THE LIST OF TAGGED DEMOLITION NOTES (TYP.)

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Architect No. 75372 -NCARB

Seal

Signature Date

Project
PROPOSED WHITE BOX FIT-OUT
STOCKTON ATLANTIC CITY CAMPUS
RESIDENTIAL COMPLEX
ATLANTIC CITY
NEW JERSEY
#78 BOARDWALK
ATLANTIC COUNTY

Project Bid Date
JUNE 25, 2020

Revisions By Date

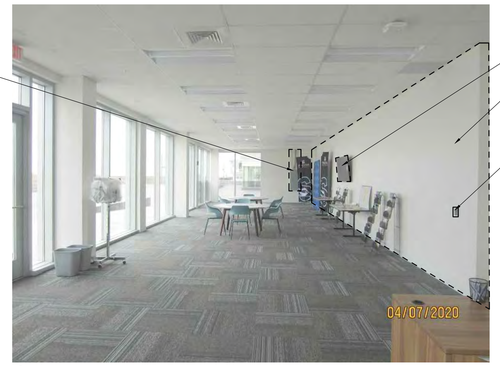
Sheet Title
RETAIL SPACE "C"
EXISTING CONDITION
PHOTOGRAPHS

Drawn By DS
Chk'd By MFY
4 OF 40

Sheet No.
D-3
BASE BID

Project No.
YC20117

Do Not Scale Drawings - Field check all dimensions prior to start of construction.



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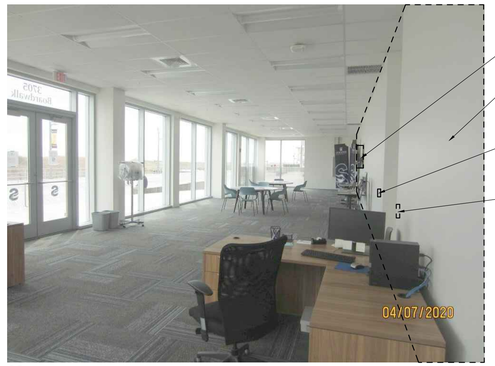

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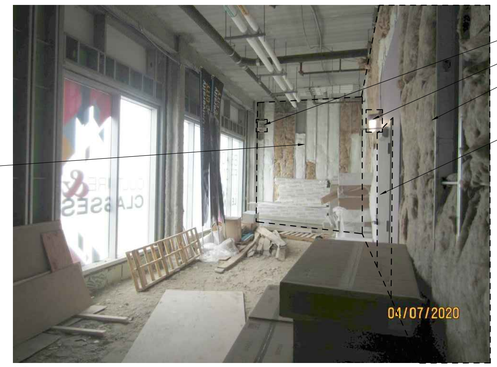

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1 / D-4 EXISTING CONDITION PHOTOGRAPHS - RETAIL SPACE "D"
SCALE: N.T.S.

NOTE
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NOTE
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Seal
Signature Date

Project
PROPOSED WHITE BOX FIT-OUT
STOCKTON ATLANTIC CITY CAMPUS
RESIDENTIAL COMPLEX
ATLANTIC CITY
NEW JERSEY
#78 BOARDWALK
ATLANTIC COUNTY

Project Bid Date
JUNE 25, 2020

Revisions By Date

Sheet Title
RETAIL SPACE "D"
EXISTING CONDITION
PHOTOGRAPHS

Drawn By DS
Chk'd By MFY
8 OF 40

Sheet No.
D-4
ALTERNATE

Project No.
YC20117

Do Not Scale Drawings - Field check all dimensions prior to start of construction.

SYMBOL LEGEND

- EXISTING TO REMAIN
- NEW METAL STUD WALL, REFER TO WALL SECTIONS FOR ADDITIONAL INFO.
- NOT IN CONTRACT
- (E) EXISTING STOREFRONT, DOOR & WINDOW TO REMAIN, NO CHANGE
- EXISTING ELECTRICAL CABINET (TYP.)
- EXISTING STEEL COLUMN TO REMAIN (TYP.)

TAGGED NOTES

(A) PROVIDE AND INSTALL NEW 5/8" (T) IMPACT RESISTANT TYPE "X" GYPSUM BOARD SECURED TO EXISTING STUDS (TYP.)

(B) PROVIDE AND INSTALL NEW 4" (T) CONCRETE SLAB TO MATCH EXISTING, TOP OF NEW / EXISTING SLAB TO ALIGN, REFER TO TYPICAL DETAIL ON A-5 FOR ADDITIONAL INFORMATION (TYP.)

(C) RELOCATED ELECTRICAL COMPONENTS, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)

(D) PROPOSED PERMEABLE PAVER WALKWAY, REFER TO A-5 FOR ADDITIONAL INFORMATION AND TYPICAL DETAIL (TYP.)

(E) PROVIDE AND INSTALL NEW 18 GA. 3⅝" METAL STUDS @ 16" O.C. AROUND COLUMN W/ NEW 5/8" (T) IMPACT RESISTANT TYPE "X" GYPSUM BOARD. EXISTING SPRAY-ON FIRE PROOFING TO REMAIN. REFER TO DETAILS ON A-5 FOR ADDITIONAL INFORMATION (TYP.)

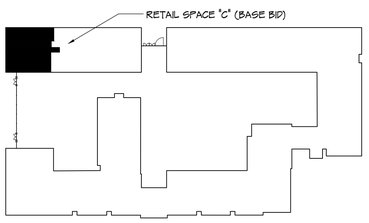
(F) PROVIDE AND INSTALL FULL HEIGHT, FULL THICKNESS BATT INSULATION, AT EXISTING WALLS (TYP.)

(G) PROVIDE AND INSTALL CARD/FROX READER AS PER THE DOOR AND HARDWARE SCHEDULE ON SHEET A-6 (TYP.)

(H) PROVIDE & INSTALL EXPANSION JOINT IN CONCRETE, REFER TO DETAIL ON A-5 FOR ADDITIONAL INFORMATION (TYP.)

GENERAL NOTES

1. ALL EXISTING SPRAY-ON FIRE PROOFING IS TO BE MAINTAINED. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL REMOVED OR DAMAGED SPRAY-ON FIRE PROOFING CAUSED BY NEW WORK (TYP.)



KEY PLAN

1 / A-1 PARTIAL PROPOSED FLOOR PLAN - RETAIL SPACE "C"
SCALE: 1/4" = 1'-0"

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Architect No. RA 015346 -GA
Architect No. 79372 -NCARB

Seal

Signature Date

Project
PROPOSED WHITE BOX FIT-OUT
STOCKTON ATLANTIC CITY CAMPUS
RESIDENTIAL COMPLEX
ATLANTIC CITY
NEW JERSEY
3701 BOARDWALK
ATLANTIC COUNTY

Project Bid Date
JUNE 25, 2020

Revisions By Date

Sheet Title
RETAIL SPACE "C"
PARTIAL PROPOSED
FLOOR PLAN & NOTES

Drawn By: DS
Chk'd By: MFY
6 OF 40

Sheet No.
A-1
BASE BID

Project No.
YC2017

Do Not Scale Drawings - Field check all dimensions prior to start of construction.

SYMBOL LEGEND

- EXISTING TO REMAIN
- NEW METAL STUD WALL, REFER TO WALL SECTIONS FOR ADDITIONAL INFO.
- NOT IN CONTRACT
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TAGGED NOTES

(A) PROVIDE AND INSTALL NEW 5/8" (T) IMPACT RESISTANT TYPE "X" GYPSUM BOARD SECURED TO EXISTING STUDS (TYP.)

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(C) RELOCATED ELECTRICAL COMPONENTS, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (TYP.)

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(E) PROVIDE AND INSTALL NEW 18 GA. 3 5/8" METAL STUDS @ 16" O.C. AROUND COLUMN W/ NEW 5/8" (T) IMPACT RESISTANT TYPE "X" GYPSUM BOARD. EXISTING SPRAY-ON FIRE PROOFING TO REMAIN. REFER TO DETAILS ON A-8 FOR ADDITIONAL INFORMATION (TYP.)

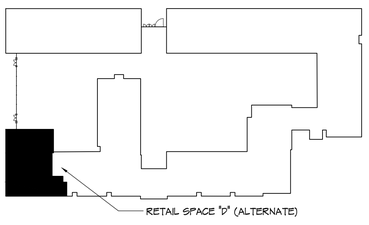
(F) PROVIDE AND INSTALL FULL HEIGHT, FULL THICKNESS BATT INSULATION, AT EXISTING WALLS (TYP.)

(G) PROVIDE AND INSTALL CARD/PROX READER AS PER THE DOOR AND HARDWARE SCHEDULE ON SHEET A-6 (TYP.)

(H) PROVIDE & INSTALL EXPANSION JOINT IN CONCRETE, REFER TO DETAIL ON A-8 FOR ADDITIONAL INFORMATION (TYP.)

GENERAL NOTES

1. ALL EXISTING SPRAY-ON FIRE PROOFING IS TO BE MAINTAINED. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL REMOVED OR DAMAGED SPRAY-ON FIRE PROOFING CAUSED BY NEW WORK (TYP.)



KEY PLAN

1 / A-2 PARTIAL PROPOSED FLOOR PLAN - RETAIL SPACE "D"
SCALE: 1/4" = 1'-0"

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Architect No. RA 016346 -GA
Architect No. 17372 -NCARB

Seal
Signature Date

PROPOSED WHITE BOX FIT-OUT
Project
STOCKTON ATLANTIC CITY CAMPUS
RESIDENTIAL COMPLEX
3701 BOARDWALK
ATLANTIC COUNTY
ATLANTIC CITY
NEW JERSEY

Project Bid Date
JUNE 25, 2020

Revisions By Date

Sheet Title
RETAIL SPACE "D"
PARTIAL PROPOSED
FLOOR PLAN & NOTES

Drawn By DS
Chk'd By MFY
7 OF 40

Sheet No.
A-2
ALTERNATE

Project No.
YC2017

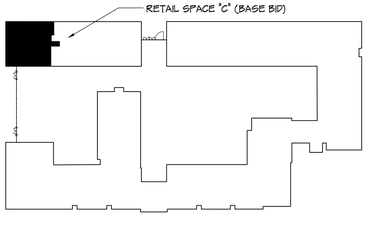
Do Not Scale Drawings - Field check all dimensions prior to start of construction.

SYMBOL LEGEND

- EXISTING TO REMAIN
- NEW METAL STUD WALL, REFER TO WALL SECTIONS FOR ADDITIONAL INFO.
- NOT IN CONTRACT
- EXISTING CEILING GRID (TYP.)
- EXISTING 2x4 LIGHT FIXTURE (TYP.)
- EXISTING 2x2 LIGHT FIXTURE (TYP.)
- EXISTING EMERGENCY LIGHT FIXTURE (TYP.)
- EXISTING WALL MOUNTED LIGHT FIXTURE (TYP.)
- EXISTING EXIT SIGN (TYP.)
- EXISTING SUPPLY DIFFUSER (TYP.)
- EXISTING RETURN DIFFUSER (TYP.)
- EXISTING EXHAUST FAN (TYP.)
- HTR — EXISTING UNIT HEATER (TYP.)
- EXISTING SWITCH (TYP.)
- D — EXISTING DETECTOR (TYP.)
- EXISTING SPRINKLER HEAD (TYP.)
- WAP — EXISTING WIRELESS ACCESS POINT (TYP.)
- PROPOSED CEILING GRID (TYP.)
- PROPOSED 2'x4' LAY-IN TYPE LIGHT FIXTURE (TYP.)
- PROPOSED 2'x2' LAY-IN TYPE LIGHT FIXTURE (TYP.)
- PROPOSED 1'x4' SUSPENDED TYPE LIGHT FIXTURE (TYP.)
- PROPOSED EXIT SIGN (TYP.)
- PROPOSED COMBO EXIT SIGN & EMERGENCY LIGHT FIXTURE (TYP.)
- PROPOSED EMERGENCY LIGHT FIXTURE (TYP.)
- PROPOSED SUPPLY DIFFUSER (TYP.)
- PROPOSED RETURN DIFFUSER (TYP.)
- PROPOSED WALL MOUNTED HEAT PUMP (TYP.)
- PROPOSED EXHAUST FAN (TYP.)
- PROPOSED CONCEALED SPRINKLER HEAD (TYP.)
- PROPOSED PENDANT SPRINKLER HEAD (TYP.)
- PROPOSED UPRIGHT SPRINKLER HEAD (TYP.)
- PROPOSED HORN STROBE (TYP.)
- F — PROPOSED MANUAL PULL STATION (TYP.)
- S — PROPOSED SMOKE DETECTOR (TYP.)

GENERAL NOTE

1. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM, & FIRE PROTECTION DRAWINGS FOR ALL ADDITIONAL REQUIRED WORK NOT SPECIFICALLY INDICATED ON THESE DRAWINGS (TYP.)
2. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SCHEDULE (TYP.)



KEY PLAN

1 / A-3 PARTIAL PROPOSED REFLECTED PLAN - RETAIL SPACE "C"
SCALE: 1/4" = 1'-0"

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Architect No. 17372 -NCARB

Seal

Signature Date

Project: PROPOSED WHITE BOX FIT-OUT
STOCKTON ATLANTIC CITY CAMPUS
RESIDENTIAL COMPLEX
ATLANTIC CITY
NEW JERSEY
#78 BOARDWALK
ATLANTIC COUNTY

Project Bid Date: JUNE 25, 2020

Revisions	By	Date

Sheet Title: RETAIL SPACE "C" PARTIAL PROPOSED REFLECTED CEILING PLAN

Drawn By	Sheet
DS	8
Chk'd By	Of
MFY	40

Sheet No.: A-3
BASE BID

Project No.: YC20117

Do Not Scale Drawings - Field check all dimensions prior to start of construction.

SYMBOL LEGEND

- EXISTING TO REMAIN
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- EXISTING 2x2 LIGHT FIXTURE (TYP.)
- EXISTING EMERGENCY LIGHT FIXTURE (TYP.)
- EXISTING WALL MOUNTED LIGHT FIXTURE (TYP.)
- EXISTING EXIT SIGN (TYP.)
- EXISTING SUPPLY DIFFUSER (TYP.)
- EXISTING RETURN DIFFUSER (TYP.)
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- WPI — EXISTING WIRELESS ACCESS POINT (TYP.)
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- PROPOSED EXIT SIGN (TYP.)
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- PROPOSED RETURN DIFFUSER (TYP.)
- PROPOSED WALL MOUNTED HEAT PUMP (TYP.)
- PROPOSED EXHAUST FAN (TYP.)
- PROPOSED CONCEALED SPRINKLER HEAD (TYP.)
- PROPOSED PENDANT SPRINKLER HEAD (TYP.)
- PROPOSED UPRIGHT SPRINKLER HEAD (TYP.)
- PROPOSED HORN STROBE (TYP.)
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- S — PROPOSED SMOKE DETECTOR (TYP.)

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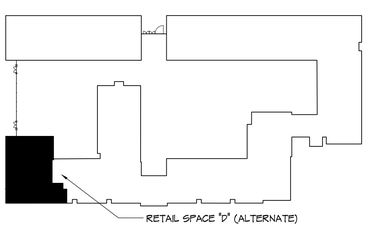
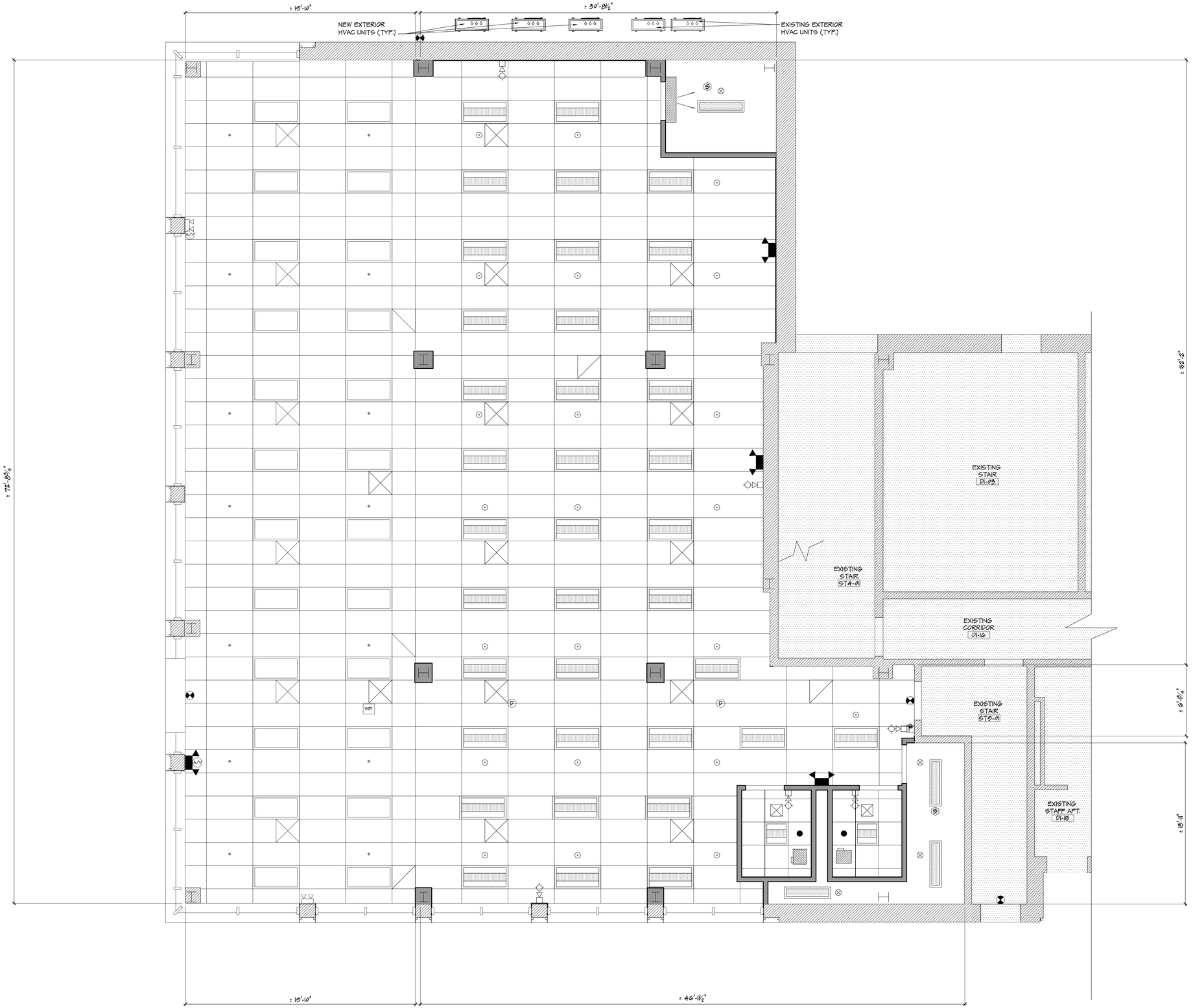


KEY PLAN



1/A-4 PARTIAL PROPOSED REFLECTED PLAN - RETAIL SPACE "D"
SCALE: 1/4" = 1'-0"

Do Not Scale Drawings - Field check all dimensions prior to start of construction.

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Seal

Signature Date

Project
PROPOSED WHITE BOX FIT-OUT
STOCKTON ATLANTIC CITY CAMPUS
RESIDENTIAL COMPLEX
ATLANTIC CITY
NEW JERSEY
#716 BOARDWALK
ATLANTIC COUNTY

Project Bid Date
JUNE 25, 2020

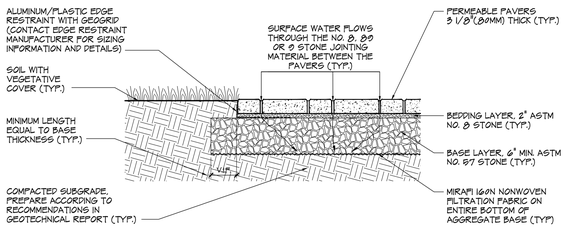
Revisions By Date

Sheet Title
RETAIL SPACE "D"
PARTIAL PROPOSED
REFLECTED CEILING PLAN

Drawn By DS
Chk'd By MFY
9 OF 40

Sheet No.
A-4
ALTERNATE

Project No.
YC20117



GENERAL DRAINABLE PAVER NOTES

1. BASIS OF DESIGN IS "BELGARD" AQUA ROC PERMEABLE PAVER, 3⅛" (80MM) THICK PERMEABLE PAVER SYSTEM, OR ARCHITECT/OWNER APPROVED EQUAL. COLOR AS SELECTED BY OWNER (TYP.)
2. CONTRACTOR IS TO HIRE A NEW JERSEY LICENSED GEOTECHNICAL ENGINEER TO EXAMINE/TEST EXISTING SOILS AND PROVIDE RECOMMENDATION ON REQUIRED DEPTH OF AGGREGATE BASE, SUBGRADE PREPARATION, DRAIN PIPES, ETC. (TYP.)
   - 2.1. THE DEPTH OF THE AGGREGATE BASE IS SUBJECT TO EXISTING SITE SPECIFIC CONDITIONS (SOIL CONDITIONS, GROUNDWATER LEVELS, CLIMATIC CONDITIONS). VERIFY AGGREGATE BASE DEPTH WITH THE GEOTECHNICAL ENGINEER (TYP.)
   - 2.2. DRAIN PIPES MAY BE REQUIRED WITHIN THE AGGREGATE BASE DEPENDING ON THE PERMEABILITY OF THE SUBGRADE SOILS. VERIFY DRAINAGE NEEDS WITH THE GEOTECHNICAL ENGINEER. IF REQUIRED, ENSURE DRAIN PIPES ARE ABLE TO DRAIN TO DAYLIGHT VIA GRAVITY FLOW TO SURFACE, OR CONNECT TO CATCH BASIN (TYP.)
3. G.C. MUST SUBMIT A FULL SET OF SHOP DRAWINGS FOR THE PERMEABLE PAVER SYSTEM, SUBGRADE PREPARATION, AND ALL RELATED ITEMS FOR REVIEW AND APPROVAL PRIOR TO ANY WORK BEING DONE (TYP.)
4. INSTALL AS PER MANUFACTURER REQUIREMENTS & SPECIFICATIONS.
5. ALL SLOPES ARE TO BE ADA COMPLIANT (TYP.)
6. AS PER MANUFACTURER, THE CROSS SECTION AS SHOWN IS SUITABLE FOR PEDESTRIAN APPLICATIONS AND RESIDENTIAL DRIVEWAYS, PATIOS, AND SIDEWALKS (TYP.)

7 / A-5 TYPICAL PERMEABLE PAVER DETAIL
SCALE: 3/4" = 1'-0"

ROOM FINISH SCHEDULE

ROOM		FLOOR	BASE	WALLS		CEILING	
RM#	NAME	MAT'L	FINISH	MAT'L	MAT'L	FINISH	MAT'L	HEIGHT
CI-01	EXISTING RETAIL SPACE	CONCRETE	EXISTING TO REMAIN					± 10'-0"
CI-01A	CONFERENCE ROOM	CONCRETE	CPT-1	BI	GWB	PT-1	ACT-1	10'-0"
CI-01B	EXISTING RESTROOM	CONCRETE	EXISTING TO REMAIN					± 8'-0"
CI-01C	EXISTING RESTROOM	CONCRETE	EXISTING TO REMAIN					± 8'-0"
CI-01D	EXISTING CORRIDOR	CONCRETE	EXISTING TO REMAIN					± 8'-0"
CI-01E	STOCKTON STORAGE	CONCRETE	PT-2	BI	GWB	PT-1	ACT-1	10'-0"
CI-01F	ELECTRICAL CLOSET	CONCRETE	PT-2	BI	GWB	PT-1	OTA	± 19'-2½"
DI-01	ENLARGED RETAIL	CONCRETE	CPT-2	BI	GWB	PT-1	ACT-1	± 10'-8½" MATCH EXISTING
DI-01A	ELECTRICAL CLOSET	CONCRETE	PT-2	BI	GWB	PT-1	OTA	± 19'-2½"
DI-01B	RESTROOM	CONCRETE	PT-2	BI	GWB	PT-1	ACT-2	8'-0"
DI-01C	RESTROOM	CONCRETE	PT-2	BI	GWB	PT-1	ACT-2	8'-0"
DI-01D	UTILITY CLOSET	CONCRETE	PT-2	BI	GWB	PT-1	OTA	± 19'-2½"

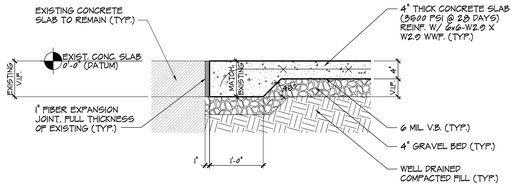
LEGEND

CPT-1	"SHAW CONTRACT" DISPERSE 24"X24" 50576 CARPET TILE
CPT-2	CARPET TILE TO MATCH EXISTING, GC TO FIELD VERIFY
B-1	"JOHNSONITE" 4" VINYL WALL BASE
ACT-1	"USG" 24"x48" RADAR BASIC ACOUSTICAL PANELS 2310 W/ "USG" DONN DXL FIRE RATED GRID SYSTEM 15/16" & HOLD DOWN CLIPS
ACT-2	"USG" 24"x24" RADAR BASIC ACOUSTICAL PANELS 2110 W/ "USG" DONN DXL FIRE RATED GRID SYSTEM 15/16" & HOLD DOWN CLIPS
GWB	"USG" 5/8" (T) IMPACT RESISTANT TYPE "X" GYPSUM BOARD, MOISTURE RESISTANT TYPE AT RESTROOM AND KITCHENETTE AREA
PT-1	"SHERWIN WILLIAMS" PAINT, (1) COAT PRIMER (2) COATS FINISH
PT-2	"SHERWIN WILLIAMS" ARMOR SEAL B100 WATERBASED EPOXY FLOOR COATING SYSTEM
OTA	OPEN TO STRUCTURE ABOVE, NO CEILING FINISH

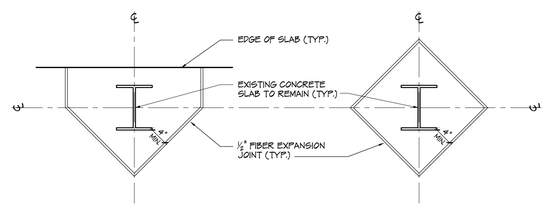
ROOM FINISH GENERAL NOTES

1. ALL MANUFACTURERS/PRODUCTS LISTED IN THE ROOM FINISH SCHEDULE ARE A DESIGN STANDARDS FOR PERFORMANCE CRITERIA (BASIS OF DESIGN), SUBSTITUTIONS/EQUALS WILL BE ALLOWED WITH PRIOR ARCHITECT / OWNER APPROVAL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION (TYP.)
2. G.C. TO SUBMIT FULL SHOP DRAWINGS FOR ALL FINISH SYSTEMS & RELATED ITEMS FOR OWNER REVIEW, APPROVAL, AND SELECTION PRIOR TO CONSTRUCTION (TYP.)
3. COLOR/PATTERN AS SELECTED BY ARCHITECT/OWNER FROM ALL AVAILABLE STANDARD COLORS AND PATTERNS (TYP.)

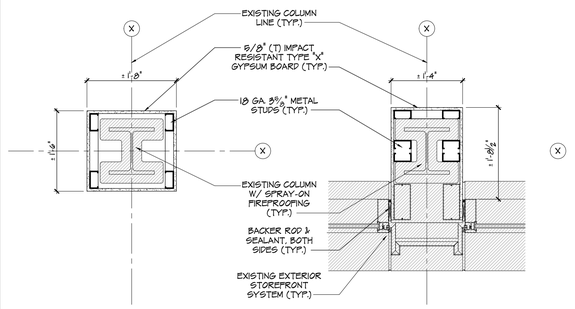
8 / A-5 ROOM FINISH SCHEDULE
SCALE: N.T.S.

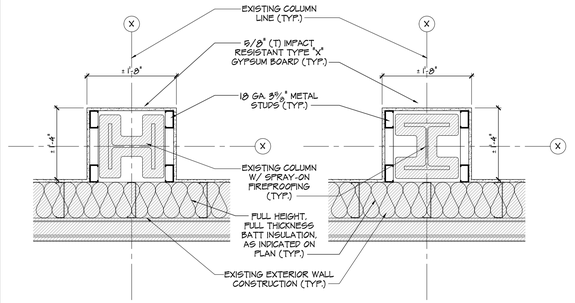


4 / A-5 TYPICAL SLAB DETAIL
SCALE: 3/4" = 1'-0"



5 / A-5 TYPICAL COLUMN EXPANSION JOINT DETAIL
SCALE: N.T.S.

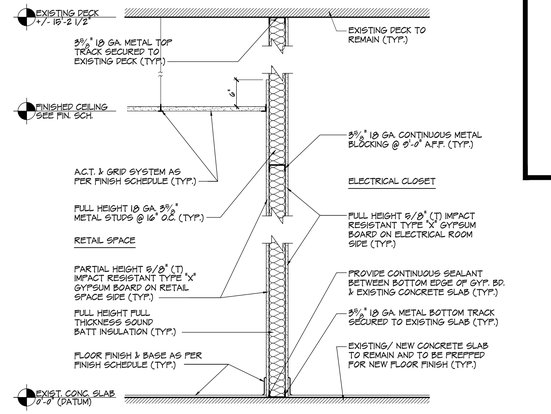




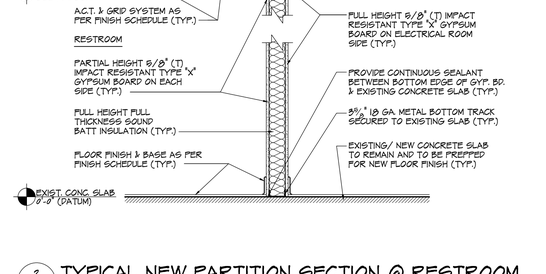
GENERAL NOTES

1. ALL EXISTING SPRAY-ON FIRE PROOFING IS TO BE MAINTAINED. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL REMOVED OR DAMAGED SPRAY-ON FIRE PROOFING CAUSED BY NEW WORK (TYP.)
2. ALL METAL STUDS ARE TO FULL HEIGHT TO DECK W/ TOP AND BOTTOM TRACKS AND THE GYPSUM BOARD IS THE EXTEND A MINIMUM OF 6" ABOVE FINISHED CEILING (TYP.)
3. EXISTING COLUMN SIZES MAY VARY. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS (TYP.)

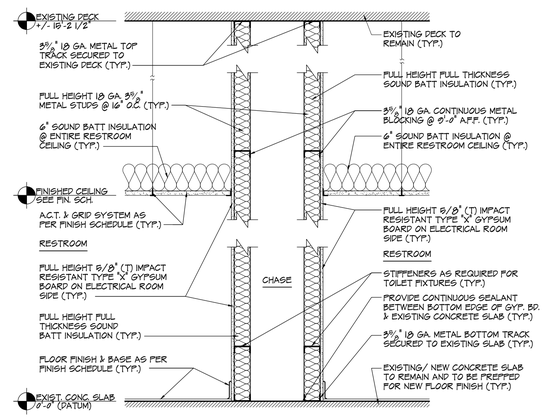
6 / A-5 TYPICAL PLAN DETAILS @ COLUMNS
SCALE: 3/4" = 1'-0"



1 / A-5 TYPICAL NEW PARTITION SECTION @ ELEC CLOSET
SCALE: 3/4" = 1'-0"



2 / A-5 TYPICAL NEW PARTITION SECTION @ RESTROOM
SCALE: 3/4" = 1'-0"



3 / A-5 TYPICAL NEW PARTITION SECTION @ CHASE
SCALE: 3/4" = 1'-0"

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Seal

Signature Date

PROPOSED WHITE BOX FIT-OUT
STOCKTON ATLANTIC CITY CAMPUS RESIDENTIAL COMPLEX
3/14 BOARDWALK
ATLANTIC COUNTY
ATLANTIC CITY
NEW JERSEY

Project#

Project Bid Date
JUNE 25, 2020

Revisions By Date

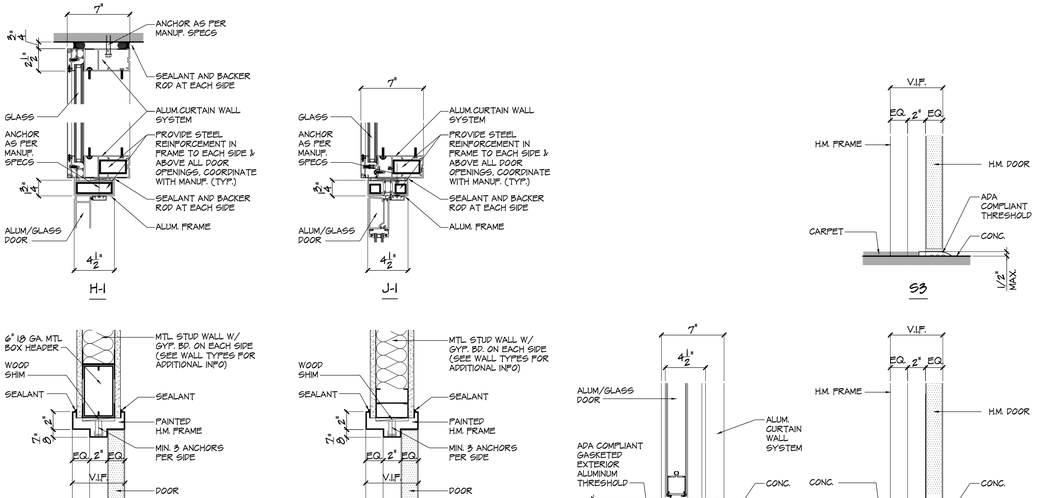
Sheet Title
TYPICAL SECTION, DETAILS, & ROOM FINISH SCHEDULE

Drawn By DS
Chk'd By MFY
10 OF 40

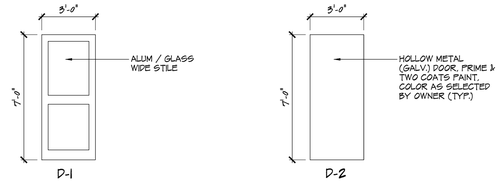
Sheet No.
A-5

Project No.
YC20117

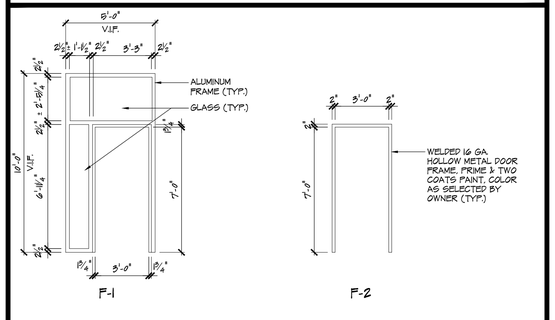
Do Not Scale Drawings - Field check all dimensions prior to start of construction.



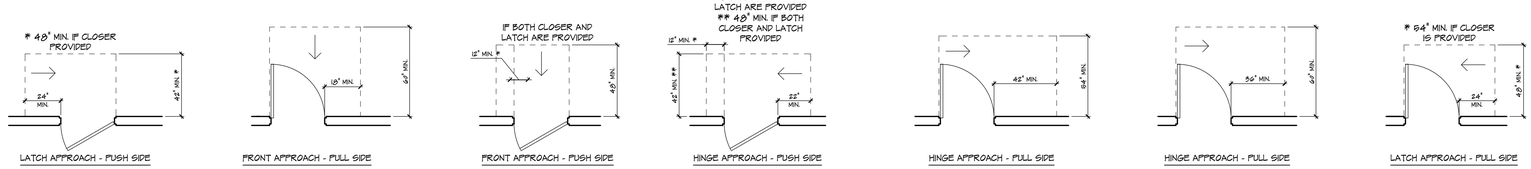
6 A-6 DOOR HEAD, JAMB & SILL DETAILS
SCALE: 1 1/2" = 1'-0"



4 A-6 DOOR TYPES
SCALE: 1/4" = 1'-0"

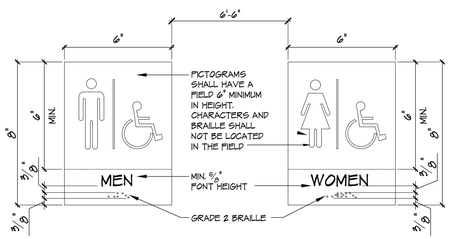


5 A-6 FRAME TYPES
SCALE: 1/4" = 1'-0"



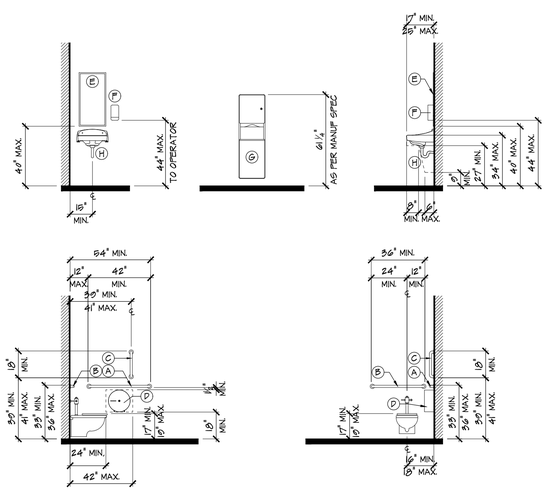
7 A-6 ADA DOOR MANEUVERING CLEARANCE DETAILS
SCALE: N.T.S.

RESTROOM SIGNAGE NOTES
1. THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL NEW SIGNAGE AT ALL TOILET ROOMS (TYP.)
2. ALL SIGNAGE SHALL CONFORM WITH APPLICABLE ADA ACCESSIBILITY GUIDELINES, INCLUDING BUT NOT LIMITED TO CLEARANCES, PROPORTION, COLOR CONTRAST & RELIEF, AND GRADE 2 BRAILLE REQUIREMENTS (TYP.)
3. THE GENERAL CONTRACTOR TO PROVIDE FULL SIGNAGE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ANY WORK BEING DONE (TYP.)
4. ALL SIGNAGE TO BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS (TYP.)



10 A-6 ADA RESTROOM SIGNAGE
SCALE: N.T.S.

LAVATORY NOTES
1. ANY EXPOSED PIPING AND UNDER SINK AREAS MUST BE PROTECTED WITH INSULATED COVERS - SUBMIT SHOP DWGS FOR REVIEW & APPROVAL (TYP.)
2. DEPENDING UPON CONFIGURATION OF CLEAR FLOOR SPACE, MAX. HEIGHT OF CONTROLS RANGES FROM 5'-0" TO 4'-8" AND THE MINIMUM HEIGHT RANGES FROM 0" TO 2'-10" (TYP.)



9 A-6 TYPICAL ADA RESTROOM ACCESSORY DETAILS
SCALE: 1/4"=1'-0"

RESTROOM ACCESSORIES

TAG	ACCESSORY	MODEL #	MOUNTING HEIGHT
A	SIDE GRAB BAR 1 1/2"Ø 42" x L	BRADLEY 812	33"-36" A.F.F. TO TOP OF BAR
B	BACK GRAB BAR 1 1/2"Ø 36" x L	BRADLEY 812	33"-36" A.F.F. TO TOP OF BAR
C	VERTICAL GRAB BAR 1 1/2"Ø 18" x L	BRADLEY 812	30"-41" A.F.F. TO BOTTOM OF BAR
D	TOILET TISSUE DISPENSER	BAY WEST B07500	18" A.F.F. TO OUTLET
E	MIRROR	BRADLEY 781-1836	40" MAX. A.F.F. TO BOTTOM OF MIRROR
F	SOAP DISPENSER	BAY WEST 52000	44" MAX. A.F.F. TO OPERATOR
G	PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BOBRICK B-43040	61¼" A.F.F. TO TOP OF UNIT AS PER MANUFACTURER SPECIFICATIONS
H	P. TRAP LAVATORY GUARD	-	-

TYPICAL TOILET ROOM NOTES

MANUFACTURERS	(OR AN ARCHITECT/OWNER APPROVED SUBSTITUTE)
ACCESSORIES:	"BRADLEY CORPORATION", "BAY WEST", "BOBRICK", "RUBBERMAID"
FIXTURES:	REFER TO PLUMBING DRAWINGS

H.C. GRAB BAR NOTES
1. PROVIDE CONTINUOUS STAINLESS STEEL WALL MOUNTING KIT AND ANCHORING DEVICES. FIELD VERIFY FOR EXACT NUMBER AND TYPE OF GRAB BARS. MOUNTING KITS REQUIRED (TYP.)
2. PROVIDE SOLID BLOCKING AS REQUIRED FOR GRAB BARS ETC. CONTRACTOR TO VERIFY EXACT LOCATION(S) IN FIELD (TYP.)
3. ALL HARDWARE AND ACCESSORIES TO BE STAINLESS STEEL (TYP.)

NOTES
1. G.C. TO PROVIDE AND INSTALL ALL ACCESSORIES. G.C. TO PROVIDE FULL SHOP DRAWINGS FOR ALL TOILET ROOM ACCESSORIES (TYP.)
2. ALL TOILET ROOM FIXTURES AND ACCESSORIES TO BE INSTALLED IN COMPLIANCE WITH ICC/ANSI A117.1-2009 AND N.J.U.C.C. "BARRIER FREE" AND ADA REQUIREMENTS (TYP.)
3. G.C. TO PROVIDE ALL RELATED ACCESSORIES REQUIRED TO COMPLETE THE INSTALLATION OF ALL FIXTURES & ACCESSORIES (TYP.)
4. ALL FAUCETS ARE TO BE ADA COMPLIANT W./ A MAX. GPM OF 0.8 (TYP.)
5. PROVIDE SOLID SUPPORT AT WALLS FOR FIXTURES AND ACCESSORIES AS REQUIRED BY MANUFACTURER, 250 LB. FULL PRESSURE (TYP.)
6. G.C. IS TO REPORT ANY DISCREPANCIES IMMEDIATELY TO ARCHITECT PRIOR TO INSTALLATION FOR ALTERNATE INSTALLATION LOCATIONS (TYP.)
7. G.C. TO INSTALL PROPOSED FLOOR FINISH TO PROVIDE POSITIVE DRAINAGE TO THE PROPOSED FLOOR DRAIN LOCATION (TYP.)

8 A-6 ACCESSORIES SCHEDULE
SCALE: N.T.S.

DOOR SCHEDULE

NO.	ROOMS	TYPE	DOOR SIZE	RATING	ELECTRIFIED DOOR	FRAME TYPE	FRAME MAT'L	FRAME H	FRAME J	FRAME S	HDW. SET
1 C1-01A	CONFERENCE ROOM / EXISTING CORRIDOR	EXISTING DOOR & FRAME TO REMAIN									1
1 C1-01E	STOCKTON STORAGE / EXISTING CORRIDOR	EXISTING DOOR & FRAME TO REMAIN									2
2 C1-01E	EXTERIOR / STOCKTON STORAGE	D-1	3'0" x 3'-0" x 7'-0"	-	YES	F-1	ALUM.	H-1	J-1	S-1	3
1 C1-01F	STOCKTON STORAGE / ELECTRICAL CLOSET	D-2	3'0" x 3'-0" x 7'-0"	B - LABEL	NO	F-2	16 GA. H.M.	H-2	J-2	S-2	4
1 D1-01A	ENLARGED RETAIL / ELECTRICAL CLOSET	D-2	3'0" x 3'-0" x 7'-0"	B - LABEL	NO	F-2	16 GA. H.M.	H-2	J-2	S-3	5
1 D1-01B	ENLARGED RETAIL / RESTROOM	D-2	3'0" x 3'-0" x 7'-0"	-	NO	F-2	16 GA. H.M.	H-2	J-2	S-3	6
1 D1-01C	ENLARGED RETAIL / RESTROOM	D-2	3'0" x 3'-0" x 7'-0"	-	NO	F-2	16 GA. H.M.	H-2	J-2	S-3	7
1 D1-01D	ENLARGED RETAIL / UTILITY CLOSET	D-2	3'0" x 3'-0" x 7'-0"	-	NO	F-2	16 GA. H.M.	H-2	J-2	S-3	8

1 A-6 DOOR SCHEDULE
SCALE: N.T.S.

DOOR SCHEDULE NOTES
1. ALL GLAZING TO BE 1" THICK INSULATED TEMPERED SAFETY GLASS (1/4" TEMPERED SAFETY GLASS / 1/2" AIR SPACE / 1/4" TEMPERED SAFETY GLASS) (TYP.)
2. REFER TO SPECIFICATIONS FOR HOLLOW METAL DOOR FRAME GAUGE REQUIREMENTS.
   ALL H.M. FRAMES ARE TO BE 16 GAUGE (UNLESS OTHERWISE NOTED) AND ARE TO BE PRIMED & PAINTED, COLOR AS SELECTED BY OWNER (TYP.)
   G.C. TO COORDINATE JAMB THICKNESS PRIOR TO ANY FABRICATION OR WORK IS DONE (TYP.)
3. REFER TO SPECIFICATIONS FOR ALUMINUM/GLASS DOOR, FRAME AND CURTAIN WALL REQUIREMENTS.
   ALL CURTAIN WALLS WITH INTEGRATED DOORS ARE TO BE BY A SINGLE MANUFACTURER (TYP.)
4. G.C. IS TO FIELD VERIFY THE ROUGH & FINISH OPENINGS FOR ALL DOORS & FRAMES (TYP.)
5. G.C. MUST SUBMIT A FULL SET OF SHOP DRAWINGS FOR ALL DOORS, FRAMES, CURTAIN WALL, HARDWARE AND ALL RELATED ITEMS FOR REVIEW AND APPROVAL PRIOR TO ANY WORK BEING DONE (TYP.)
6. PROVIDE CREDENTIAL READER(S) AS INDICATED ON THE HARDWARE SCHEDULE. REFER TO FLOOR PLAN, ELECTRICAL DRAWINGS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CREDENTIAL READERS (TYP.)
7. ALL DOORS ARE TO HAVE A MINIMUM RETURN OF 4" (TYP.)
8. UNDER CUT TOILET DOORS AS REQUIRED FOR HVAC, COORDINATE WITH MECHANICAL DRAWINGS (TYP.)
9. ALL COMPOSITE ACCESS CONTROL WIRE FOR ELECTRIFIED DOORS ARE TO RUN BACK TO THE EXISTING ACCESS CONTROL PANEL IN ROOM C2-02, COORDINATE EXACT LOCATION & ROUTE W/ THE UNIVERSITY. THE UNIVERSITY WILL HANDLE ALL PROGRAMMING (TYP.)
10. REFER TO ELECTRICAL DRAWINGS FOR ALL DOORS THAT REQUIRE POWER (TYP.)

2 A-6 DOOR SCHEDULE NOTES
SCALE: N.T.S.

DOOR HARDWARE SETS

SET 1: 1/C1-01A CONFERENCE ROOM
(EXISTING DOOR)
- 1 BEST PASSAGE LOCK 7KC-3-0-N-16-D-SS-626
- 1 WALL STOP

NOTE: CONTRACTOR TO REMOVE ALL EXISTING HARDWARE & PREP EXISTING DOOR AND FRAME AS REQUIRED TO ACCEPT PROPOSED HARDWARE CHANGES. TURN OVER ALL REMOVED HARDWARE TO THE UNIVERSITY (TYP.)

SET 2: 1/C1-01E STOCKTON STORAGE
(EXISTING DOOR)
- 1 BEST STOREROOM LOCK 7KC-3-7-D-16-D-SS-626
- 1 BEST DOUBLE CYLINDER DEADBOLT 8T3-7-M-STK-626
- 1 BEST COREMAX CORE - 7 PIN
- 1 WALL STOP

NOTE: CONTRACTOR TO REMOVE ALL EXISTING HARDWARE & PREP EXISTING DOOR AND FRAME AS REQUIRED TO ACCEPT PROPOSED HARDWARE CHANGES. TURN OVER ALL REMOVED HARDWARE TO THE UNIVERSITY (TYP.)

SET 3: 2/C1-01E STOCKTON STORAGE
- 1 PRECISION APEX 2000 P/N E2109LD-4602BA-SWING-630 (THIS P/N IS NOT COMPLETE. CONFIRM W/ BEST)
- 1 24V POWER SUPPLY PS914-6
- 1 STANLEY CLOSER D4550-STD-689-SN
- 1 BEST COREMAX CORE - 7 PIN
- 3 STANLEY HEAVY DUTY HINGE @3 CB168 4 1/2 X 4 1/2-630
- 1 RIXSON 9 SERIES OVERHEAD STOP THROUGH BOLTED P/N 9-336-8488-630 (1ST LH) 9-336-8488-630 (1ST RH)
- 1 RECESSED ALUMINUM DOOR CONTACT SPDT
- 1 CARD/PROX READER
- 1 BOSCH REQUEST-TO-EXIT PIR DETECTOR, DS160
- 1 Ø WIRE POWER TRANSFER
- 3 SILENCERS
- 1 WEATHER STRIPPING
- 1 ADA COMPLIANT GASKETED EXTERIOR ALUMINUM THRESHOLD

SET 4: 1/C1-01F ELECTRICAL CLOSET
- 1 BEST BASIS V EXIT TRIM P/N EXBV-7-EV-16-MS-626-LHR-FH2-RM-SH-TRK2
- 1 PRECISION APEX 2000 RIM EXIT DEVICE 2105LD X TRIM X SWING X 630 (THIS P/N IS NOT COMPLETE. CONFIRM W/ BEST)
- 1 BEST COREMAX CORE - 7 PIN
- 1 STANLEY CLOSER D4550-STP-630-SN
- 3 STANLEY HEAVY DUTY HINGE @3 CB168 4 1/2 X 4 1/2-630
- 1 WALL STOP ROCKWOOD 406
- 3 SILENCERS

SET 5: 1/D1-01A ELECTRICAL CLOSET
- 1 BEST BASIS V EXIT TRIM P/N EXBV-7-EV-16-MS-626-LHR-FH2-RM-SH-TRK2
- 1 PRECISION APEX 2000 RIM EXIT DEVICE 2105LD X TRIM X SWING X 630 (THIS P/N IS NOT COMPLETE. CONFIRM W/ BEST)
- 1 BEST COREMAX CORE - 7 PIN
- 1 STANLEY CLOSER D4550-STP-630-SN
- 3 STANLEY HEAVY DUTY HINGE @3 CB168 4 1/2 X 4 1/2-630
- 1 WALL STOP ROCKWOOD 406
- 3 SILENCERS

SET 6: 1/D1-01B RESTROOM
- 1 BEST PRIVACY LOCK 7KC-3-0-L-16-D-SS-626
- 1 BEST CLASSROOM DEADBOLT 8T3-7-S-STK-626
- 1 BEST COREMAX CORE - 7 PIN
- 3 STANLEY HEAVY DUTY HINGE @3 CB168 4 1/2 X 4 1/2-630
- 1 WALL STOP ROCKWOOD 406
- 3 SILENCERS

SET 7: 1/D1-01C RESTROOM
- 1 BEST PRIVACY LOCK 7KC-3-0-L-16-D-SS-626
- 1 BEST CLASSROOM DEADBOLT 8T3-7-S-STK-626
- 1 BEST COREMAX CORE - 7 PIN
- 3 STANLEY HEAVY DUTY HINGE @3 CB168 4 1/2 X 4 1/2-630
- 1 WALL STOP ROCKWOOD 406
- 3 SILENCERS

SET 8: 1/D1-01D UTILITY CLOSET
- 1 BEST BASIS V CYLINDRICAL LOCK 9KBV-3-7-DV-16-MS-626-TRK2
- 1 BEST COREMAX CORE - 7 PIN
- 1 STANLEY CLOSER D4550-STD-689-SN
- 3 STANLEY HEAVY DUTY HINGE @3 CB168 4 1/2 X 4 1/2-630
- 1 WALL STOP ROCKWOOD 406
- 3 SILENCERS

GENERAL DOOR HARDWARE NOTES
1. REFER TO DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL HARDWARE NOTE ABOVE IS PER LEAF, UNLESS OTHERWISE NOTED (TYP.)
3. ALL MANUFACTURERS LISTED ABOVE ARE BASIS OF DESIGN & A UNIVERSITY STANDARD, ALL SUBSTITUTIONS MUST BE APPROVED PRIOR TO ANY WORK.
4. ALL THE CORES WILL BE BEST SFIC, UNIVERSITY STANDARD (TYP.)

3 A-6 DOOR HARDWARE SCHEDULE
SCALE: N.T.S.

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Seal

Signature Date

PROPOSED WHITE BOX FIT-OUT
STOCKTON ATLANTIC CITY CAMPUS RESIDENTIAL COMPLEX
ATLANTIC CITY
NEW JERSEY
3/16 BOARDWALK
ATLANTIC COUNTY

Project

Project Bid Date: JUNE 25, 2020

Revisions By Date

Sheet Title: DOOR SCHEDULES, DOOR DETAILS, & RESTROOM ACCESSORY SCHEDULE

Drawn By: DS
Chk'd By: MFY
11 OF 40

Sheet No.: A-6

Project No.: YC20117

Do Not Scale Drawings - Field check all dimensions prior to start of construction.

BASIC MECHANICAL REQUIREMENTS

GENERAL

1. GENERAL NOTES, SYMBOL LISTS AND DETAILS ARE APPLICABLE TO ALL MECHANICAL DRAWINGS LABELED "M".
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS AND LABOR TO PROVIDE COMPLETE AND WORKING MECHANICAL SYSTEMS WHETHER SPECIFIED OR IMPLIED.
3. ALL NECESSARY PERMITS AND INSPECTIONS SHALL BE PROCURED BY THE CONTRACTOR AND ALL FEES PAID BY THE COUNTY. ALL LICENSES REQUIRED BY CONTRACTOR SHALL BE PROCURED AND PAID BY THE CONTRACTOR. SUBMIT TO THE OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM THE APPROVED INSPECTION AGENCIES.
4. THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO THE LOCAL CODE, STATE LAWS, 2018 IMC, 2018 IBC, AGA, NFPA, NSPC, ASME, IFGC AND ALL OTHER GOVERNING AUTHORITIES.
5. DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC., AT THE JOB SITE.
6. CONTRACTOR SHALL GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTS IN THE WORKMANSHIP AND MATERIALS.
7. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO PREVENT INTERFERENCE BETWEEN BEAMS, STRUCTURES, PIPING, CONDUITS, LIGHTING FIXTURES, FIRE ALARM DEVICES, FIRE SPRINKLERS, ETC.
8. ALL MECHANICAL EQUIPMENT SHALL BE LOCATED AT A MINIMUM FLOOR ELEVATION ABOVE THE AREA'S FEMA BASE FLOOR ELEVATION. PROVIDE ALL NECESSARY STRUCTURES. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
9. ALL MATERIALS USED IN CONSTRUCTION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS, A SMOKE DEVELOPMENT RATING OF 50 OR LESS, AND A FUEL CONTRIBUTED RATING OF 25 OR LESS. ALL MATERIALS SHALL BE "SELF-EXTINGUISHING".
10. ALL PIPING, CONDUIT AND DUCT PENETRATIONS OF "FIRE RATED BUILDING CONSTRUCTION" SHALL BE SLEEVED AND SEALED WITH A FIRE BARRIER MATERIAL EQUAL TO 3M "PENETRATION SEALING SYSTEMS". REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATING OF BUILDING CONSTRUCTION.
11. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
12. CONTRACTOR SHALL PROVIDE COMPLETE SETS OF BOUND OPERATING AND MAINTENANCE INSTRUCTIONS. CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS AGENT WITH REGARD TO THE PROPER USE OF THE SYSTEM UNTIL SUCH INSTRUCTION IS COMPLETE TO THE OWNER'S SATISFACTION. OPERATION AND MAINTENANCE MANUAL SHALL INCLUDE A VALVE SCHEDULE IF VALVES ARE INSTALLED AS PART OF THE NEW WORK.
13. MECHANICAL CONTRACTOR SHALL LABEL ALL NEW MECHANICAL EQUIPMENT, PIPING AND VALVES (INDOORS AND OUTDOORS) IN A PERMANENT MANNER. MECHANICAL PIPING SHALL BE LABELED IN ACCORDANCE WITH ASME A13.1 FOR LETTERING SIZE, LENGTH OF COLOR FIELD, COLORS, AND VIEWING ANGLES OF IDENTIFICATION. DIRECTION OF FLOW SHALL BE IDENTIFIED WITH DIRECTIONAL ARROW TAPE. VALVES SHALL BE IDENTIFIED WITH BRASS VALVE TAGS, ATTACHED WITH SOLID BRASS CHAINS AND "S" HOOKS. VALVE TAGS SHALL BE COORDINATED WITH VALVE SCHEDULE PROVIDED IN OPERATION AND MAINTENANCE MANUAL. MECHANICAL EQUIPMENT SHALL BE LABELED WITH ENGRAVED PLASTIC TAGS WITH MOUNTING HOLES AND STAINLESS STEEL SCREWS. ALL LABELING SHALL HAVE HIGH CONTRAST BETWEEN LETTER AND BACKGROUND COLORS AND SHALL BE LOCATED FOR EASY VISIBILITY.
14. ALL MECHANICAL EQUIPMENT AND APPLIANCES INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
15. THE ENTIRE MECHANICAL INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL CODE (IMC) AND ANY ADOPTED SUPPLEMENTS, AS ADOPTED BY THE STATE OF NEW JERSEY.
16. PROVIDE VIBRATION ISOLATION MOUNTINGS FOR ALL MOTOR OPERATED EQUIPMENT AND AS RECOMMENDED BY THE MANUFACTURER.
17. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
18. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL. CONTRACTOR ALL POWER REQUIREMENTS OF MECHANICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING TO ALL MECHANICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL FURNISH LOOSE MOTOR STARTERS AND DISCONNECT SWITCHES. INTEGRAL DISCONNECT SWITCHES SHALL BE PROVIDED WITH EQUIPMENT WHERE POSSIBLE. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL AND INTERLOCK WIRING AND ALL THERMOSTATS AND ACCESSORIES.
19. ALL DUCT MOUNTED SMOKE OR HEAT DETECTORS SHALL BE FURNISHED AND WIRED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE WIRING OF ALL DUCT MOUNTED DETECTORS TO ENSURE A COMPLETE OPERATING SYSTEM. THE FIRE ALARM CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS FOR THE LOCATIONS OF ALL DUCT MOUNTED DETECTORS. ALL DUCT MOUNTED DETECTORS AND THEIR ASSOCIATED WIRING SHALL CONFORM TO ARTICLE 300-22 OF THE 2014 EDITION OF THE NATIONAL ELECTRIC CODE. MECHANICAL CONTRACTOR'S CONTROL'S SUBCONTRACTOR IS RESPONSIBLE FOR ALL DEDICATED WIRING (AND ASSOCIATED CONTROLS PROGRAMMING) BETWEEN DUCT SMOKE AND HEAT DETECTORS REQUIRED FOR AIR HANDLING UNITS' SMOKE CONTROL OPERATIONS.
20. PROVIDE BALANCING OF ALL AIR SYSTEMS PER AABC, NEBB OR TABB STANDARDS. SUBMIT TEST DATA AND DEMONSTRATE IN FIELD.
21. EQUIPMENT ACCESS: CONTRACTOR SHALL PROVIDE ACCESS FOR CONTROL DEVICES, HEAT EXCHANGERS AND HVAC SYSTEMS THAT UTILIZE ENERGY AND ARE LOCATED IN CONCEALED PLACES. ACCESS SHALL BE PROVIDED FOR INSPECTION, REPAIR, SERVICE AND REPLACEMENT WITHOUT THE NEED FOR DISMANTLING ANY PERMANENT CONSTRUCTION INCLUDING WALLS, DUCTS, PIPING, ETC. CONSTRUCTION SHALL BE AS DESCRIBED PER THE 2018 INTERNATIONAL MECHANICAL CODE (IMC), SECTION 306.1, AS ADOPTED BY THE STATE OF NEW JERSEY.
22. PRIOR TO CONSTRUCTION, MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE ELECTRONIC COORDINATION DRAWINGS FOR ALL TRADES, WHICH SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW. MECHANICAL CONTRACTOR SHALL COORDINATE THIS EFFORT WITH ALL OTHER TRADES PERFORMING WORK ON THE PROJECT. ANY CONFLICTS BETWEEN TRADES MUST BE RESOLVED PRIOR TO CONSTRUCTION.
23. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. COORDINATE WITH ALL TRADES. SUBMIT TO THE ARCHITECT FOR APPROVAL, DUPLICATE SPECIFICATION SHEETS OF ALL EQUIPMENT SUPPLIED OR INSTALLED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
    - A. EXHAUST FANS
    - B. INDOOR AIR HANDLING UNITS
    - C. CONDENSING UNITS
    - D. SPLIT SYSTEM AIR CONDITIONING AND HEAT PUMP SYSTEMS
    - E. GRILLES, REGISTERS & DIFFUSERS
    - F. DUCTWORK LAYOUTS
    - G. DUCTWORK SPECIALTIES & APPURTENANCES
    - H. AUTOMATIC TEMPERATURE CONTROL SYSTEMS (INCLUDING BUILDING MANAGEMENT SYSTEM)
    - I. COORDINATION DRAWINGS.
    - J. "AS-BUILT" DRAWINGS.

DUCTWORK

1. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL G90 GRADE PER SMACNA. ALL DUCTS CONSTRUCTED OF GALVANIZED STEEL SHEET METAL SHALL HAVE MINIMUM GAGE THICKNESS AS FOLLOWS:

MAXIMUM SIDE (IN.)	GAGE
THROUGH 12	26
13 - 30	24
31 - 54	22
55 - 84	20
OVER 84	16

DIAMETER (IN.)	GAGE
THROUGH 12	26
13 - 18	24
19 - 28	22
29 - 36	20
37 - 52	18

PROVIDE ALL NECESSARY CROSS-BREAKING AND DUCT REINFORCING AS REQUIRED PER SMACNA RECOMMENDATIONS.

2. ALL DUCTWORK SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED PER SMACNA STANDARDS.
3. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, LIQUID SEALANTS OR TAPES. CLOSURE SYSTEMS, TAPES AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181B-M" FOR MASTIC. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181B-C." CLOSURE SYSTEMS USED TO SEAL METAL ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR DIMENSIONS.
5. COORDINATE LOCATION OF DUCTWORK, PIPING, AND DIFFUSERS WITH ALL OTHER TRADES.
6. ALL DUCTWORK AND PIPING ABOVE CEILING AND IN AREAS WITHOUT CEILINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE.
7. PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCHES AND RUNOUTS. PROVIDE OPPOSED BLADE VOLUME DAMPERS AT ALL REGISTERS, GRILLES AND DIFFUSER NECKS IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHETHER SHOWN ON DRAWINGS OR NOT.
8. PROVIDE PIPE SLEEVES FOR ALL MECHANICAL PIPING PENETRATING CONCRETE AND MASONRY WALLS. SEAL ALL ANNULAR SPACE BETWEEN SLEEVES AND DUCTWORK OR PIPING WITH A FIRE BARRIER MATERIAL EQUAL TO 3M "PENETRATION SEALING SYSTEM".
9. THE INSIDE OF ALL DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
10. THE MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF MASONRY RETURN AIR OPENINGS AND RECESSED EQUIPMENT WITH THE GENERAL CONTRACTOR.
11. ALL RETURN AIR OPENINGS SHALL BE ABOVE CEILING UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL WIRE MESH SCREENS ON ALL OPENINGS.
12. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILING.
13. PROVIDE RETURN AIR OPENINGS AS REQUIRED. OPENING SHALL BE SIZED FOR REQUIRED CFM AT A VELOCITY NOT TO EXCEED 400 FEET PER MINUTE. PROVIDE LINTELS AS REQUIRED.
14. SUPPORTS FOR DUCTS SHALL BE INSTALLED AT INTERVALS OF NOT MORE THAN 10 FEET.
15. FLEXIBLE DUCTWORK CONCEALED ABOVE CEILING SHALL BE EQUAL TO THERMAFLEX PRO SERIES G-KM INSULATED FLEXIBLE DUCT (R-VALUE=4.2) WITH POLYETHYLENE VAPOR BARRIER JACKETING. FLEXIBLE DUCT EXPOSED TO VIEW SHALL BE EQUAL TO THERMAFLEX PRO SERIES M-KE INSULATED FLEXIBLE DUCTWORK WITH REINFORECED METALLIZED VAPOR BARRIER JACKETING. FLEX DUCT SHALL BE U.L. LISTED AND LABELED AS A CLASS 1 AIR DUCT, STANDARD 181. FLEX DUCT SHALL BE CONNECTED TO BRANCHES AND MAINS USING CONICAL FITTINGS AND SHALL NOT EXCEED 10'-0" IN LENGTH INCLUDING ONE ELBOW. FLEXIBLE DUCTWORK SHALL NOT BE USE AS RETURN AIR OR EXHAUST DUCTWORK.
16. DUCTWORK SHALL BE RATED FOR MINIMUM STATIC PRESSURES OF 2" E.S.P. SEAL ALL LONGITUDINAL SEAMS AND TRANSVERSE JOINTS WITH FIRE-PROOF SEALANT FOR "AIR-TIGHT" APPLICATION.
17. COORDINATE ALL EXTERIOR LOUVERS REQUIREMENTS WITH GENERAL CONTRACTOR AND ALL OTHER ASSOCIATED TRADES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL EXTERIOR LOUVERS.

INSULATION

DUCTWORK INSULATION

1. ALL RIGID ROUND AND RECTANGULAR SUPPLY AND RETURN SHEET METAL DUCT "CONCEALED FROM VIEW" SHALL BE WRAPPED WITH 1-1/2" THICK FIBERGLASS DUCT INSULATION HAVING A CONDUCTIVITY OF .26 AT MEAN TEMPERATURE OF 75 DEGREES F. AND A DENSITY OF 1/5 PCF. INSULATION SHALL BE SCHULLER "MICRO-LITE" OR APPROVED EQUAL. THIS INCLUDES DUCTWORK BEYOND 20' OF AN AIR HANDLER.
2. ALL RIGID ROUND AND RECTANGULAR SUPPLY AND RETURN SHEET METAL SUPPLY AIR DUCTWORK WITHIN 20' OF AN AIR HANDLER SHALL BE LINED WITH ONE (1") THICK FIBERGLASS SPIRAL DUCT THERMAL/ACOUSTIC LINING HAVING A CONDUCTIVITY OF .23 AND R-VALUE OF 4.3 AT MEAN TEMPERATURE OF 75'F. INSULATION SHALL BE JOHNS-MANVILLE "SPIRACOUSTIC PLUS" OR APPROVED EQUAL.
3. INSULATION MUST BE FIRE RATED FOR FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED FOR 50 OR LESS.
4. ALL INSULATION SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. EXHAUST DUCTWORK SHALL BE UNINSULATED EXCEPT BETWEEN BACKDRAFT DAMPER AND EXHAUST LOUVER. EXHAUST DUCTWORK BETWEEN BACKDRAFT DAMPER AND EXHAUST LOUVER SHALL BE WRAPPED WITH 1-1/2" THICK FIBERGLASS DUCT INSULATION HAVING A CONDUCTIVITY OF .26 AT MEAN TEMPERATURE OF 75 DEGREES F. AND A DENSITY OF 1.5 PCF. INSULATION SHALL BE SCHULLER "MICROLITE" OR APPROVED EQUAL.
6. OUTSIDE AIR DUCTWORK BETWEEN THE POINT OF CONNECTION TO RETURN AIR DUCTWORK OR RETURN AIR PLENUM AND OUTSIDE AIR INTAKE LOUVER SHALL BE WRAPPED WITH 1-1/2" THICK FIBERGLASS DUCT INSULATION HAVING A CONDUCTIVITY OF .26 AT MEAN TEMPERATURE OF 75 DEGREES F. AND A DENSITY OF 1.5 PCF. INSULATION SHALL BE SCHULLER "MICROLITE" OR APPROVED EQUAL.

REFRIGERANT PIPING

1. REFRIGERANT PIPING SHALL BE TYPE "L" OR TYPE "ACR" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS, JOINED USING 45% SILVER BRAZING SOLDER AND SILVER BRAZING FLUX.
2. PROVIDE LIQUID LINE REFRIGERANT SIGHT GLASS/MOISTURE INDICATOR.
3. PROVIDE LIQUID AND SUCTION LINE FILTER/DRYERS AS REQUIRED.
4. INSULATE REFRIGERANT SUCTION LINE WITH 1" THICK ARMAFLEX INSULATION.
5. REFRIGERANT ACCESS PORTS SHALL BE PROTECTED IN ACCORDANCE WITH IMC 2018 SECTION 1101.10.

GRILLES, REGISTERS AND DIFFUSERS

1. ALL SIZES OF CEILING DIFFUSERS, EXHAUST GRILLES AND RETURN GRILLES SHOWN ON DRAWINGS ARE MODUAL SIZES, NECK SIZES ARE INDICATED WITH THE ABREVIATION OF "NK".
2. ALL CEILING DIFFUSERS SHOWN ON DRAWINGS ARE 4-WAY UNLESS OTHERWISE NOTED.
3. ALL CEILING DIFFUSERS SHALL HAVE OPPOSED BLADE DAMPERS. ALL SIDEWALL MOUNTED SUPPLY GRILLES SHALL BE DOUBLE
4. DEFLECTION UNLESS OTHERWISE NOTED.
5. ALL CEILING DIFFUSERS SHALL BE OF ALUMINUM CONSTRUCTION UNLESS OTHERWISE NOTED.
6. PROVIDE SQUARE TO ROUND ADAPTORS AS NECESSARY.
7. ALL CEILING DIFFUSERS SHALL BE 24"X24" LAY-IN MODULES UNLESS OTHERWISE NOTED.

CONDENSATE PIPING

1. PIPING SHALL BE RIGIDLY SUPPORTED AT INTERVALS OF NOT MORE THAN 10 FEET.
2. PROVIDE DIELECTRIC UNIONS IN PIPING WHERE DISSIMILAR METALS ARE JOINED TOGETHER.
3. THE SIZE OF ALL PIPING SHALL BE AS SHOWN ON THE DRAWINGS, OR WHERE NOT SHOWN, AS REQUIRED.
4. ALL COPPER PIPING SHALL BE JOINED USING 95-5 TIN/ANTIMONY SOLDER.
5. ALL CONDENSATE DRAIN LINES SHALL BE PIPED TO FULL SIZE OF THE UNITS DRAIN OUTLET AND PROVIDED WITH A "P" TRAP SIZED AT MINIMUM TO EXCEED FAN STATIC PRESSURE. CONNECT CONDENSATE DRAINS TO PLUMBING LINES AS INDICATED ON DRAWINGS. EXTEND LINES ON ROOF MOUNTED EQUIPMENT
6. CONDENSATE DRAINAGE: DWV COPPER TUBING, PITCHED DOWN A MINIMUM OF 1/8" PER FOOT AWAY FROM UNIT.
7. INSULATION SHALL CARRY THROUGH ALL WALL AND FLOOR PENETRATIONS AND PIPE HANGERS.
8. PROVIDE GALVANIZED METAL SHIELDS FORMED TO FIT THE INSULATION BETWEEN HANGERS AND FINISHED INSULATIONS.

ALTERATIONS TO EXISTING SYSTEMS AND DEMOLITION

1. IT IS THE INTENT THAT ALL EXISTING PIPING, DUCTWORK, FIXTURES AND OTHER EQUIPMENT AND MATERIALS THAT INTERFERE WITH THE ALTERED EXISTING BUILDING ARRANGEMENTS AND NEW SYSTEMS BE REMOVED, RELOCATED, REROUTED OR ABANDONED. THE DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT ARE TO BE REMOVED, RELOCATED, REROUTED OR ABANDONED BY EACH TRADE. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS. HOWEVER, THEIR REMOVAL, RELOCATIONS, REROUTING OR ABANDONMENT SHALL ALSO BE INCLUDED IN THIS CONTRACT AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
2. EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME ABANDONED DUE TO NEW WORK SHALL BE REMOVED BACK TO ACTIVE RISER AND MAIN AND PROPERLY PLUGGED OR CAPPED BEHIND FINISHED SURFACES.
3. ALL EXISTING PIPING TO BE DEMOLISHED MAY NOT BE SHOWN. CONTRACTOR SHALL DURING PRE-BID SITE VISIT DETERMINE EXTENT OF DEMOLITION AND INCLUDE COST OF THIS WORK IN BID. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS. ALL UNKNOWN BELOW SLAB PIPING ENCOUNTERED DURING INSTALLATION OF NEW WORK SHALL BE REMOVED AND CAPPED OFF AT ACTIVE MAIN OR BRANCH. ALLOWANCE SHALL BE MADE FOR THESE ITEMS IN BID PRICE.
4. EXISTING EQUIPMENT AND MATERIALS THAT ARE TO REMAIN, BUT BECOME EXPOSED DUE TO NEW WORK, SHALL BE RELOCATED AND RECONNECTED AS DIRECTED BY ARCHITECT.
5. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT AND MATERIALS SHALL BE REVIEWED WITH ARCHITECT AND OWNER BEFORE BEGINNING WORK.
6. REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER SHALL BECOME PROPERTY OF CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM SITE. EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY CONTRACTOR TO AN ON-SITE STORAGE LOCATION DESIGNATED BY OWNER.
7. THE CONTRACTOR MUST SURVEY AND VERIFY LOCATIONS AND PHYSICAL SIZES OF ALL EXISTING ITEMS AND DETERMINE WHETHER RELOCATION OR REROUTING WILL BE REQUIRED. IF RELOCATION OR REROUTING IS REQUIRED, INCLUDING THAT OF ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS, THE CONTRACTOR SHALL INCLUDE ALL NECESSARY WORK AS PART OF HIS CONTRACT AND IT SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL PATCH AND REPAIR ALL ROOF, FLOOR AND WALL OPENINGS RESULTING FROM THE DEMOLITION OF EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, DEVICES, ETC. COORDINATE THIS WORK WITH OWNER'S REPRESENTITIVES PRIOR TO DEMOLITION.

CONTINUITY OF EXISTING SYSTEMS AND SERVICES

1. ALL WORK SHALL BE PERFORMED AT SUCH TIME AND IN SUCH MANNER AS WILL LEAST INTERFERE WITH MAINTENANCE AND OPERATION OF OWNER'S ACTIVITIES. PROVISIONS SHALL BE MADE TO PERMIT OWNER'S USE OF ALL THE BUILDING AND OF EXISTING SYSTEMS AT ALL TIMES. PROVIDE TEMPORARY FACILITIES TO SECURE THESE CONDITIONS. REMOVE TEMPORARY FACILITIES WHEN PERMANENT WORK HAS BEEN PLACED INTO SERVICE.
2. FULLY COORDINATE WITH ARCHITECT, OWNER AND ALL OTHER TRADES, ALL WORK INVOLVING SHUT-DOWN AND INTERRUPTION OF EXISTING SYSTEMS AND SERVICE.
3. SHUT-DOWN OF EXISTING SERVICES WHERE REQUIRED TO INSTALL NEW SYSTEMS OR ALTER EXISTING, SHALL BE PERFORMED DURING HOURS THAT THE BUILDING IS NOT BEING USED BY OWNER. ALL COSTS FOR PERFORMING THIS WORK SHALL BE BORNE BY THE CONTRACTOR AND WITHOUT "EXTRA" COST TO THE OWNER.
4. EXISTING SYSTEMS AND SERVICES THAT ARE TEMPORARILY DISCONNECTED, BUT ARE TO REMAIN IN USE, SHALL BE PERMANENTLY RECONNECTED AND RETURNED TO PROPER OPERATION.
5. FULLY COORDINATE WITH ARCHITECT, OWNER AND OTHER TRADES TO INSURE COMPLETE CONTINUITY OF ALL SYSTEMS AND SERVICES.

DUCTWORK SYMBOLS

SINGLE LINE		DOUBLE LINE
24X12	DUCT SIZE (WIDTH X DEPTH)	24X24
24"ø	ROUND DUCT SIZE (DIAMETER)	24"ø
24"ø	FLEXIBLE DUCT (DIAMETER SIZE)	24"ø
	SUPPLY DUCT CROSS SECTION UP	
	SUPPLY DUCT DN	
	RETURN OR EXHAUST CROSS SECTION UP	
	RETURN OR EXHAUST DUCT DN	
	SQUARE ELBOW WITH TURNING VANES	
	RADIUS TURN ELBOW	
	CEILING DIFFUSER W/FLEXIBLE DUCT & VOLUME DAMPER ON TAKE-OFF	
WMS	TRANSFER DUCT ABV CLG WITH WIRE MESH SCREEN ON END	WMS
	DUCT END CAP	
	VOLUME DAMPER	
	1" UNDERCUT DOOR	
	SUPPLY OR OUTDOOR AIR FLOW DIRECTION	
	RETURN OR EXHAUST AIRFLOW DIRECTION	
BDD	BACKDRAFT DAMPER	
FD	FIRE DAMPER	
M	MOTOR OPERATED DAMPER	

NOTE:
THE SYMBOLS FOR WORK TO BE DEMOLISHED AND REMOVED ARE THE SAME AS THOSE ABOVE EXCEPT THEY ARE DRAWN WITH A DASHED LINETYPE.

MECHANICAL PIPING LEGEND

— — c — —	CONDENSATE DRAIN

NOTE:
PIPING TO BE DEMOLISHED ARE SHOWN IN A DASHED LINETYPE.

ABBREVIATIONS

ABV	ABOVE
BI	BLACK IRON
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
DEMO	DEMOLISH AND REMOVE
(D)	DEMOLISH AND REMOVE
DN	DOWN
EA	EXHAUST AIR
EG	EXHAUST GRILLE
EXIST.	EXISTING
(E)	EXISTING TO REMAIN
LD	LINEAR DIFFUSER
MIN.	MINIMUM
(N)	NEW
NK	NECK
OBD	OPPOSED BLADE DAMPER
RA	RETURN AIR
(R)	EXISTING SHOWN RELOCATED
(RE)	RELOCATE EXISTING
RG	RETURN GRILLE
SA	SUPPLY AIR
SG	SUPPLY GRILLE
S.P.	STATIC PRESSURE
TD	TRANSFER DUCT
T'STAT	THERMOSTAT OR TEMPERATURE SENSOR
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
WMS	WIRE MESH SCREEN

NOTE:
ALL SYMBOLS OR ABBREVIATIONS ARE NOT NECESSARILY USED ON THE CONTRACT DRAWINGS.

MECHANICAL SYMBOLS

1	REVISION NUMBER
T	THERMOSTAT
	CEILING DIFFUSER
	RETURN REGISTER OR EXHAUST GRILLE
	CONNECTION POINT
	DISCONNECT POINT
D	DUCT SMOKE DETECTOR
S	SENSOR

COORDINATION NOTE

PRIOR TO CONSTRUCTION, MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE ELECTRONIC COORDINATION DRAWINGS FOR ALL TRADES, WHICH SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TO THE MECHANICAL CONTRACTOR ELECTRONIC COPIES OF ALL ELECTRICAL INSTALLATION WORK INCLUDING ALL LAYOUTS AND CUT SHEETS FOR ALL EQUIPMENT, FIXTURES, DEVICES, CONDUITS, APPURTENANCES, ETC., FOR INCORPORATION INTO THE COORDINATION DRAWINGS. ANY CONFLICTS BETWEEN TRADES MUST BE RESOLVED PRIOR TO CONSTRUCTION.

SPECIFICATION NOTE

IF THE CONTRACTOR DISCOVERS A DISCREPANCY BETWEEN THE BOOK SPECIFICATION AND THE DRAWING SPECIFICATION, CONTRACTOR SHALL IMPLEMENT THE MORE STRINGENT OF THE TWO.

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No.	Date	Description
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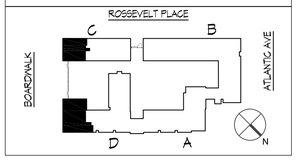
REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

MECHANICAL NOTES, LEGEND, SYMBOLS & ABBREVIATIONS

SHEET: 12 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-0.1	REVISION	
DATE: 05/22/2020			
PROJECT NO.:			

SPLIT DOAS UNIT SCHEDULE

INDOOR UNIT																			OUTDOOR UNIT									
								MAIN COIL						REHEAT COIL			ELECTRICAL											
										E.A.T. (°F)		L.A.T. (°F)																
UNIT	MFR	MODEL	QTY	STYLE	SERVING	OUTSIDE AIR (CFM)	AIRFLOW RATE (CFM)	TOTAL COOLING (BTUH)	SENSIBLE COOLING (BTUH)	DB (SUMMER /WINTER)	WB	DB (SUMMER)	WB	TOTAL HEATING (BTUH)	E.A.T. (°F)	L.A.T. DB / WB (°F)	V/PH/HZ	MCA	MOCP	WEIGHT (LBS)	UNIT	MFR	MODEL	TOTAL COOLING (BTUH)	TOTAL HEATING (BTUH)	EER	V/PH/HZ	MCA	MOCP	WEIGHT (LBS)	NOTES
BUILDING C																														
AHU-1	FRESH ACCESS	AM120NNDDCV/AA	1	DUCTED	MISC	650	950	88,800	0	88.2 / 25	71.0	51.0	51.0	61,800	29.0	72 / 58.6	208V/1Ø/60	8.9	15	550	CU-1	SAMSUNG	AM096FXVAJR2AA	96,000	108,000	11.9	480/3/60	19	25	600	ALL NOTES, BASE BID
BUILDING D																														
AHU-2	FRESH ACCESS	AM200NNDDCV/AA	1	DUCTED	RETAIL	1175	1525	146,800	0	88.2 / 25	71.0	53.0	53.0	98,700	25.0	72 / 58.7	208V/1Ø/60	14.5	15	625	CU-2	SAMSUNG	AM168HXVAJR2AA	168000	189,000	10.6	480/3/60	33	40	800	ALL NOTES, ALT BID

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT SWITCH - INDOOR AND OUTDOOR UNITS
2. MOUNT INDOOR UNIT WITH CONDENSATE PUMP - COORDINATE WITH LOCATION ON PLAN
3. PROVIDE INTERCONNECTING CONTROL WIRE AND REFRIGRERANT PIPING AND OUTDOOR UNITS
4. PROVIDE INDOOR UNIT WITH WALL MOUNTED TEMPERATURE CONTROLS, HANGING RODS WITH VIBRATION ISOLATION.
5. PROVIDE LOW AMBIENT CONTROL KIT
6. PROVIDE DDC CONTOLLER CAPABLE OF INTERFACING WITH BUILDING MANAGEMENT SYSTEM
7. PROVIDE MERV 8 FILTER FOR ALL INDOOR UNITS
8. PROVIDE EMERGENCY DRAIN PAN UNDER ALL INDOOR UNITS.
9. PROVIDE A MODE CONTROL UNIT (MCU) FOR THE MAIN (COOLING) AND REHEAT COILS & ALL NECESSARY COMPONENTS.
10. PROVIDE AN ENTHALPY SENSOR IN THE OUTSIDE AIR STREAM BEFORE THE COOLING COIL.
11. AHU-1 ACTUAL LAT W/RH IS 72.0°F. AHU-2 ACTUAL LAT W/RH IS 79.0 °F. SET BOTH AHU-1 & 2 TO PROVIDE 72.0° F LAT.
12. AHU-1 ACTUAL HEATING LAT IS 80.4 °F. AHU-2 ACTUAL HEATING LAT IS 75.1 °F, SET BOTH AHU-1 & 2 TO PROVIDE 72° F LAT.
13. PROVIDE DOAS INDOOR COILS AND OUTDOOR UNITS WITH SEASHORE COATING.

SCHEDULE OF AIR DEVICES

CD-1	CEILING DIFFUSER EQUAL TO KRUEGER MODEL 5SHR, ALUMINUM, FIXED DISCHARGE WITH ADJUSTABLE 1, 2, 3 OR 4-WAY THROW. BORDER TYPE SHALL BE LAY-IN OR SURFACE MOUNT AS REQUIRED. ACTIVE DIFFUSER FACE AREA SHALL BE MAXIMUM AVAILABLE. PROVIDE MANUFACTURER'S ALUMINUM OPPOSED BLADE LEVER OPERATED DAMPER AND ROUND NECK ADAPTOR PER SIZES SHOWN ON PLAN. FINISH SHALL BE BAKED ACRYLIC PAINT, COLOR AS SELECTED BY ARCH. ALL DIFFUSERS ARE 24X24 FACE. NECK SIZE TO BE DETERMINED BY MANUFACTURER FOR AN NC LEVEL LESS THAN 30.
RG-1	CEILING/SIDEWALL RETURN GRILLE EQUAL TO KRUEGER MODEL S585H-OBD, ALUMINUM WITH 1-1/4" BORDER ON ALL SIDES AND A MINIMUM BORDER THICKNESS OF 0.040 INCHES. GRILLE SHALL BE FIXED 45° DEFLECTION WITH 1/2" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION. BORDER TYPE AS REQUIRED. PROVIDE WITH ALUMINUM OPPOSED BLADE DAMPER. FINISH SHALL BE BAKED ON ACRYLIC PAINT, COLOR AS SELECTED BY ARCHITECT. NECK SIZE AS SHOWN ON DRAWINGS.

*MATCH WITH EXISTING AIR DEVICES.

EXHAUST FAN SCHEDULE

(EF #)

FAN	TYPE	OPERATION	MFR	SERVING	MODEL NUMBER	CFM	E.S.P. IN W.C.	FRPM	HP	DRIVE	V/PH/HZ	NOTES
EF-1, 2	CABINET CEILING	OCC SENSOR	LOREN COOK	RESTROOM	GC-186	125	0.75	929	66W	DIRECT	120V/1Ø/60	1 THRU 6 (ALT BID)
EF-3	IN LINE	INTERLOCK W/AHU-1	COOK	PLENUM	GN-740	500	0.5	1453	3.9A	DIRECT	120V/1Ø/60	1,2,3,5,6,7 (BASE BID)
EF-4	IN LINE	INTERLOCK W/AHU-2	COOK	PLENUM	GN-960	1,075	0.5	1029	5.6A	DIRECT	120V/1Ø/60	1,2,3,5,6,7 (ALT BID)

NOTES:
1. PROVIDE COMBINATION DISCONNECT SWITCH AND MOTOR STARTER.
2. PROVIDE ALUMINUM BACKDRAFT DAMPER
3. SUPPORT WITH HANGING RODS AND VIBRATION ISOLATOR KIT FOR SUSPENDED INSTALLATION
4. PROVIDE WALL CAP
5. PROVIDE ECM MOTOR
6. PROVIDE MOTOR MOUNTED SPEED CONTROL
7. PROVIDE ALUMINUM CONSTRUCTION, ALUMINUM OBD'S AND INSULATED HOUSING FOR EF-3 & EF-4.

HEAT PUMP SCHEDULE

INDOOR UNIT											OUTDOOR UNIT							
UNIT	SERVING	MFR	MODEL	STYLE	QUANTITY	AIRFLOW RATE (H/M/L)	TOTAL COOLING (BTUH)	TOTAL HEATING (BTUH)	V/PH/HZ	NOMINAL RUNNING CURRENT (A)	MOCP	UNIT	MODEL	COP	SEER/EER	V/PH/HZ	MCA	MOCP	NOTES
C BUILDING (BASE BID)																			
HP-30	RETAIL CONF. RM.	SAMSUNG	AC030MNHDCH/AA	DUCT S	1	883/777/671	30,000	32,000	208V/1Ø/60	*	-	CU-5-C	AC030JXADCH/AA	3.16	18.4 / 10.0	208V/1Ø/60	23	30	ALL NOTES
HP-24	EXISTING RETAIL, STORAGE	SAMSUNG	AC024MNHDCH/AA	DUCT S	1	700/620/530	24,000	27,000	208V/1Ø/60	*	-	CU-6-C	AC024JXADCH/AA	3.44	20 / 11.8	208V/1Ø/60	13.5	20	ALL NOTES
WHP-12	ELECTRICAL RM	SAMSUNG	AC012MNADCH/AA	WALL MNT	1	300/247/194	12,000	14,000	208V/1Ø/60	*	-	CU-7-C	AC012KXADCH/AA	2.4	18 / 9.8	208V/1Ø/60	10.7	15	ALL NOTES
D BUILDING (ALTERNATE BID)																			
HP-36	RETAIL	SAMSUNG	AC036MNHDCH/AA	DUCT S	1	1,165/985/845	36,000	40,000	208V/1Ø/60	*	-	CU-6-D	AC036JXADCH/AA	3.54	20 / 11.5	208V/1Ø/60	26.5	40	ALL NOTES
HP-24	RETAIL	SAMSUNG	AC024MNHDCH/AA	DUCT S	1	700/620/530	24,000	27,000	208V/1Ø/60	*	-	CU-7-D	AC024JXADCH/AA	3.44	20 / 11.8	208V/1Ø/60	13.5	20	ALL NOTES
WHP-12	ELECTRICAL RM	SAMSUNG	AC012MNADCH/AA	WALL MNT	1	300/247/194	12,000	14,000	208V/1Ø/60	*	-	CU-8-D	AC012KXADCH/AA	2.4	18 / 9.8	208V/1Ø/60	10.7	15	ALL NOTES

*THE OUTDOOR UNIT SHALL SUPPLY POWER TO INDOOR UNIT

PROVIDE INDOOR UNITS WITH:
1. VIBRATION ISOLATION MOUNTING
2. INTEGRAL DRAIN PUMP ON 1ST FLOOR UNITS.
3. MERV 8 DISPOSABLE FILTER.
4. WALL MOUNTED PROGRAMMABLE THERMOSTAT

PROVIDE OUTDOOR UNITS WITH:
1. DETAILED REFRIGERANT PIPING DIAGRAMS INCLUDING SIZING, LENGTHS AND INCLUDE ALL RELATED ACCESSORIES.
2. INTEGRAL CONTROLLER.
3. INVERTER DRIVEN, DC SCROLL TYPE COMPRESSORS W/SOFT START
4. SEACOAST COATING ON COIL & CASING.
5. LOW AMBIENT OPEARATION CAPABILITY.
6. EQUIPMENT SUPPORT QUICK-SLING #QSMS1801 OR EQUAL.

VENTILATION SCHEDULE

ROOM NO.	ROOM NAME	AREA (FT^2)	VOLUME (FT^3)	NO. OF OCCUP. OR FIXTURES	MECHANICAL CODE REQUIRED VENTILATION RATE						DESIGN		
					AREA OUTDOOR AIR FLOWRATE (CFM/FT^2)	AREA O.A. REQ'D (CFM)	PEOPLE/FIXTURE OUTDOOR AIR FLOWRATE	PEOPLE O.A. REQ'D (CFM)	AIR DISTR. EFFECT.	TOTAL O.A. REQ'D (CFM)	TOTAL DESIGN O.A. (CFM)	TOTAL DESIGN AIR (CFM)	EXHAUST AIR (CFM)
BUILDING C - BASE BID													
	EXISTING RETAIL	945		14	0.12	115	7.5	105	1	220	300	1,750	
	EXISTING CORRIDOR	218		0	0.06	15	0	0	1	15	50	300	-
	EXISTING RESTROOM	68		1	0.00	0	75	75	1	75	0	50	75
	EXISTING RESTROOM	68		1	0.00	0	75	75	1	75	0	50	75
	RETAIL CONFERENCE	492		25	0.06	30	5	125	1	155	200	1,150	
	STOCKTON STORAGE	536		0	0.12	65	0	0	1	65	100	225	
	ELECTRICAL CLOSET	72		0	0	0	0	0	1	0	0	0	
		2,399		41						605	650	3,525	150
BUILDING D - ALTERNATE BID													
	EXISTING RETAIL	1,450		22	0.12	175	7.5	165	1	340	515	1,650	
	RETAIL	2,516		38	0.12	300	7.5	285	1	585	660	2,125	
	RESTROOM	45		1	0.00	0	75	75	1	75	0	50	75
	RESTROOM	45		1	0.00	0	75	75	1	75	0	50	75
	ELECTRICAL CLOSET	75		0	0	0	0	0	1	0	0	0	
		4,131		61						1,075	1,175	3,875	150

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No.	Date	Description
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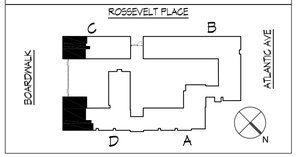
REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

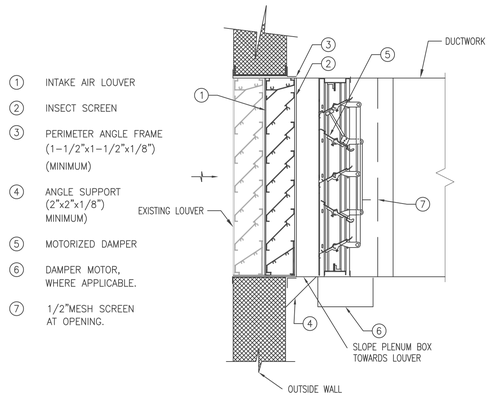
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

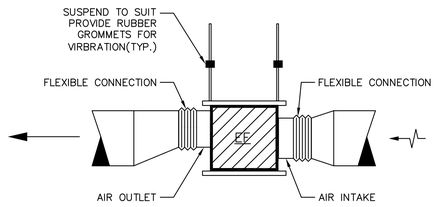
MECHANICAL SCHEDULES

SHEET: 13 OF 49

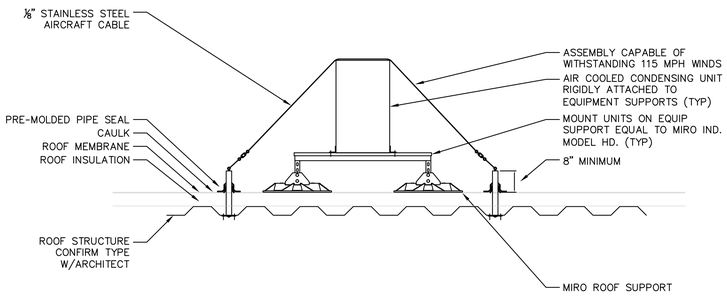
DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: BTR	DRAWING NO. M-0.2	REVISION
DATE: 05/22/2020		
PROJECT NO.:		



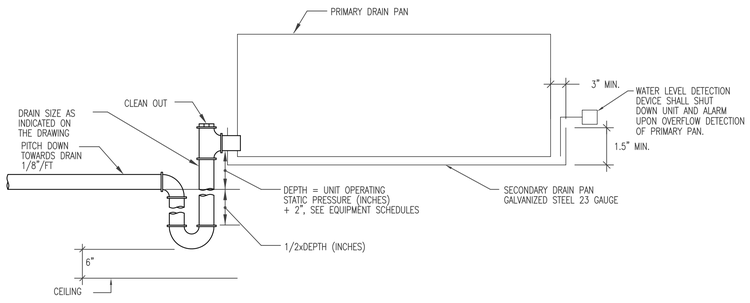
7 MO.3 LOUVER AND PLENUM CONNECTION DETAIL
SCALE: N.T.S.



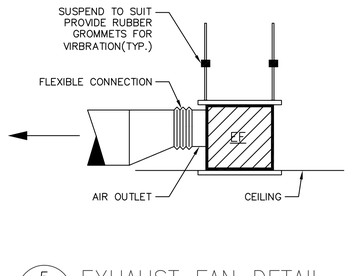
8 MO.3 INLINE EXHAUST FAN DETAIL
SCALE: N.T.S.



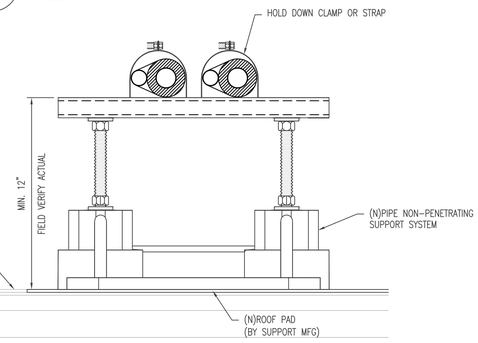
9 MO.3 TYPICAL EQUIPMENT TIE-DOWN DETAIL
SCALE: N.T.S.



4 MO.3 DRAW THRU CONDENSATE DRAIN PAN DETAIL
SCALE: N.T.S.



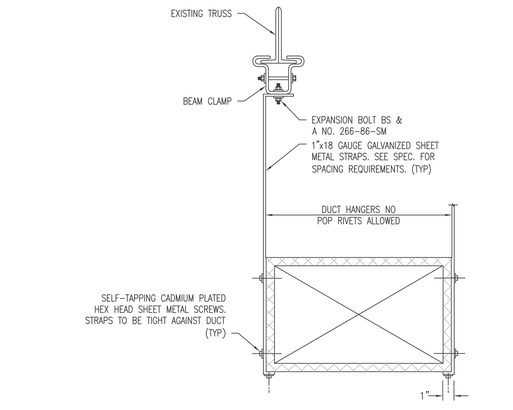
5 MO.3 EXHAUST FAN DETAIL
SCALE: N.T.S.



6 MO.3 REFRIGERANT PIPE SUPPORT ON ROOF DETAIL
SCALE: N.T.S. (NON-PENETRABLE TYPE)

NOTES:

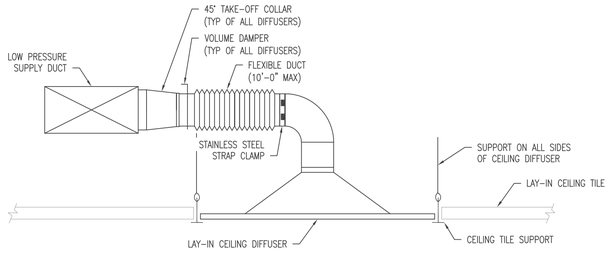
1. PROVIDE PEDESTAL MOUNTED SUPPORT SYSTEM WHERE INDICATED ON PLAN.
2. SUPPORT SYSTEM SHALL BE NON-PENETRATING TYPE. SPACING SHALL BE AS INDICATED ON PLAN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. UNIT BASE SHALL BE TWO(2) 32"x10"x3" (TOTAL) HIGH DENSITY IMPACT POLYPROPYLENE WITH UV PROTECTION. BASE DENSITY SHALL BE 55.8 #/CU.FT.
4. CHANNELS SHALL BE 12 GAUGE, HOT DIP GALVANIZED CARBON STEEL, 13/16" PER MANUFACTURER'S RECOMMENDATION. PROVIDE THREE SIDES. CHANNEL SHALL BE ADJUSTABLE IN HEIGHT AND WIDTH.
5. HARDWARE (NUT AND WASHERS) SHALL BE HOT DIP GALVANIZED CARBON STEEL.
6. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. PROVIDE PHP SYSTEM/DESIGN, PHP-PP10, MIRO-BDSA, COOPER B-LINE OR APPROVED EQUAL.



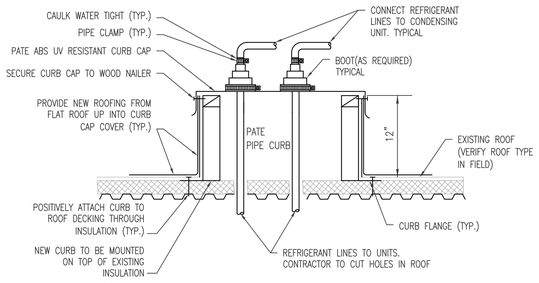
NOTES:

1. ON DUCTS OVER 48" WIDE, HANGERS SHALL TURN UNDER AND FASTEN TO BOTTOM OF DUCT WHEN CROSS-SECTIONAL AREA EXCEEDS 8 SQ.FT, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.

1 MO.3 TYPICAL DUCT SUPPORT DETAIL
SCALE: N.T.S.



2 MO.3 FLEXIBLE BRANCH DUCT DETAIL
SCALE: N.T.S.



3 MO.3 REFRIGERANT PIPE CURB INSTALLATION DETAIL
SCALE: N.T.S.

NOTES:

1. FINAL FINISH AND SEALING OF REFRIGERANT PIPE CURBS SHALL BE IN ACCORDANCE WITH METHODS APPROVED BY ROOFING MANUFACTURER OF (E)ROOFING SYSTEM.
2. PIPE CURBS TO BE UTILIZED FOR BOTH MECHANICAL AND ELECTRICAL SERVICES.

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No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:

PROJECT:

PROPOSED WHITEBOX FITOUT

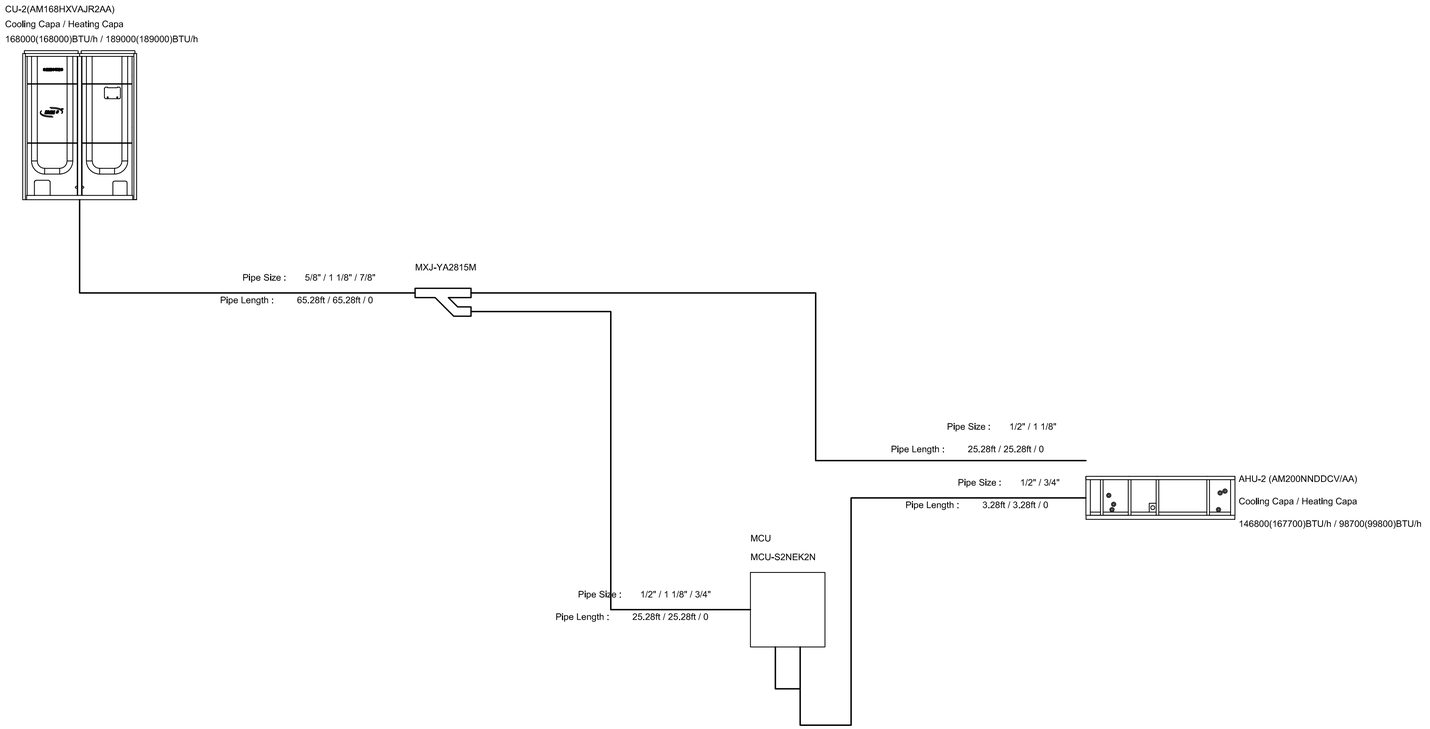
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

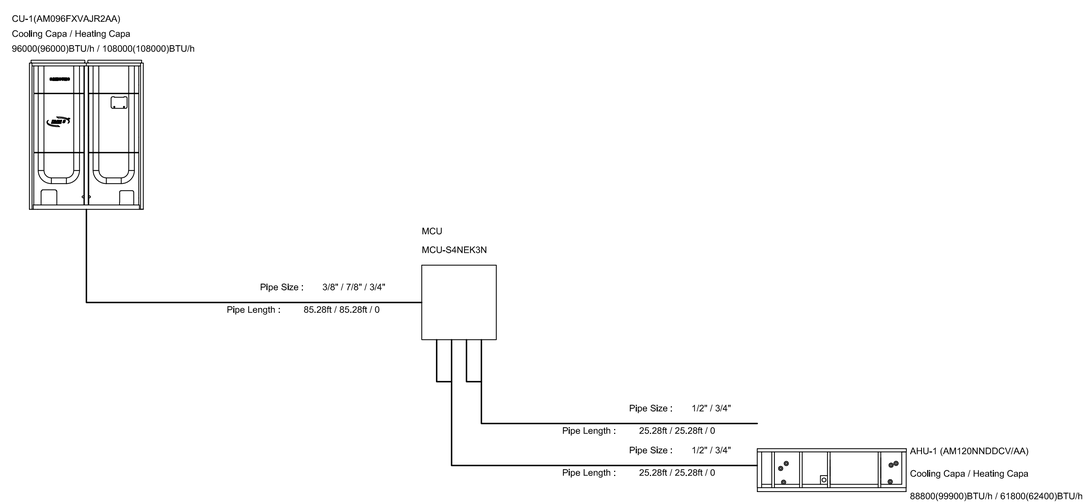
MECHANICAL DETAILS

SHEET: 14 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-0.3		REVISION
DATE: 05/22/2020			
PROJECT NO.:			



2 MO.4 AHU-2 & CU-2 REFRIGERANT PIPING DIAGRAM
SCALE: NTS



1 MO.4 AHU-1 & CU-1 REFRIGERANT PIPING DIAGRAM
SCALE: NTS

SHEET NOTES:

1. REFRIGERANT PIPING DIAGRAM FOR AHU-1 WITH CU-1 AND AHU-2 WITH CU-2 ARE FOR REFERENCE ONLY. ACUTAL PIPE SIZE, PIPE LENGTH AND SYSTEM CONFIGURATION MAY BE DIFFERENT FROM THE DIAGRAM. REFER TO MANUFACTURER FOR FINAL PIPE SIZE, PIPE LENGTH AND SYSTEM CONFIGURATION.

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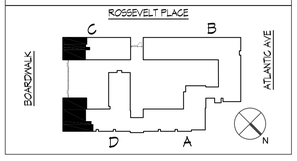


PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

MECHANICAL REFRIGERANT PIPING DIAGRAM

SHEET: 15 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-0.4		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

DEMOLITION OF EXISTING SYSTEM NOTES:

1. GENERAL NOTES:

   A. CONTRACTOR SHALL COORDINATE THE REMOVAL OF MECHANICAL EQUIPMENT WITH OTHER TRADES SO AS NOT TO AFFECT THE OPERATION OF EXISTING SYSTEMS. PARTICULAR ATTENTION SHALL BE GIVEN TO UTILITY SERVICES, ELECTRIC, WATER AND BUILDING UTILITIES.

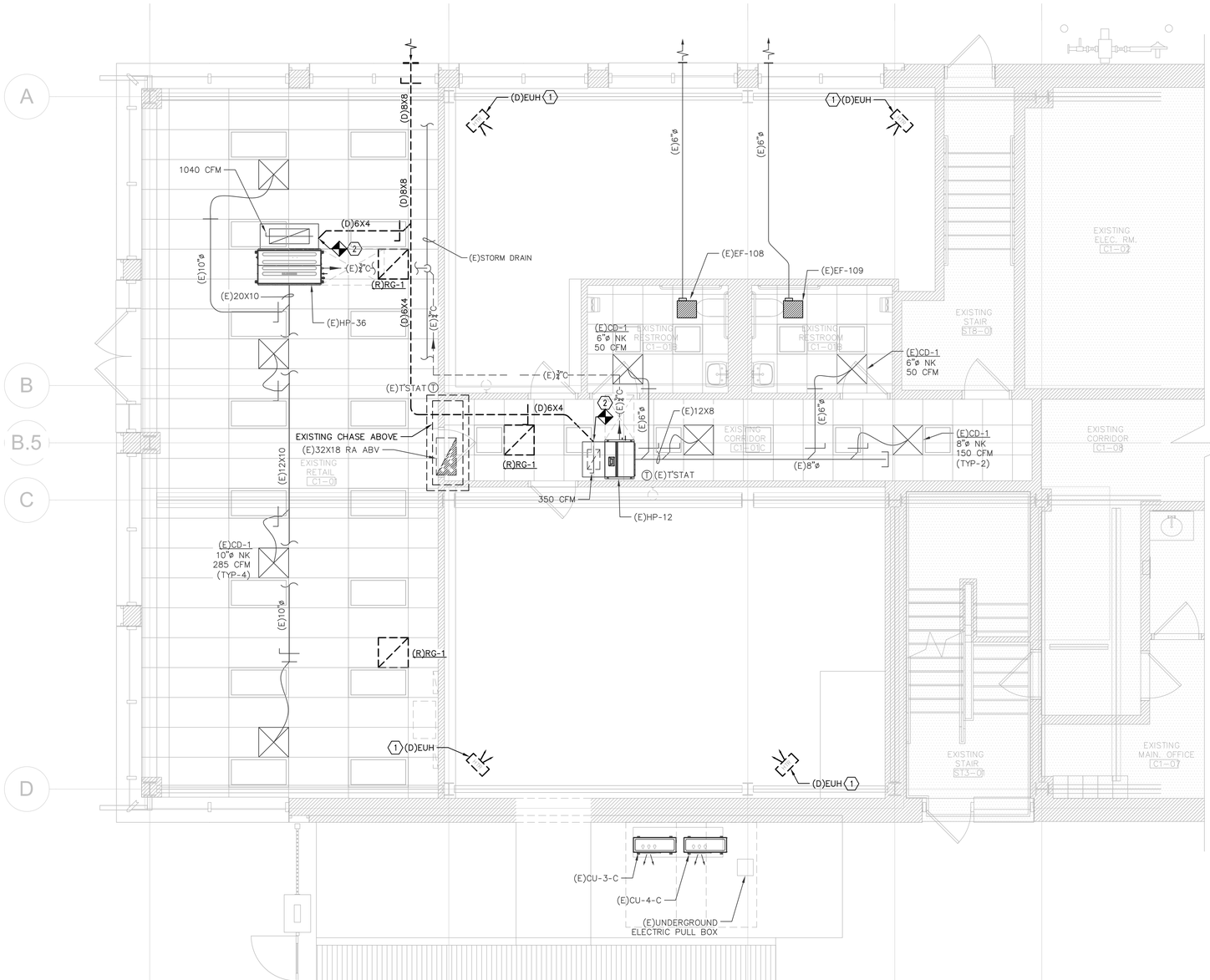
   B. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING EQUIPMENT, CONDENSATE PIPE SIZE & ROUTING AND ALL ASSOCIATED WITH THE EXISTING SYSTEM BEFORE INITIALIZING DEMOLITION.

2. DEMOLITION KEYED NOTES:

GENERAL: DEMOLITION NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL ⟨–⟩ AND ARE NUMBERED AS FOLLOWS:

⟨1⟩ REMOVE EXISTING ELECTRIC UNIT HEATER AND THERMOSTAT. PATCH & REPAIR TO MATCH EXISTING SURFACES.

⟨2⟩ CUT AND PATCH AIR TIGHT EXISTING PLENUM.



1 MD-1 PARTIAL MECHANICAL DEMOLITION PLAN – BLDG C
SCALE: 1/4" = 1'-0"

0' 1' 2' 4' 8'
SCALE BAR: 1/4"=1'-0"

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Anthony H. Caucci

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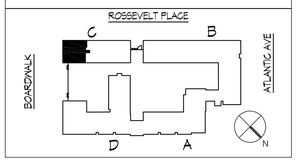
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

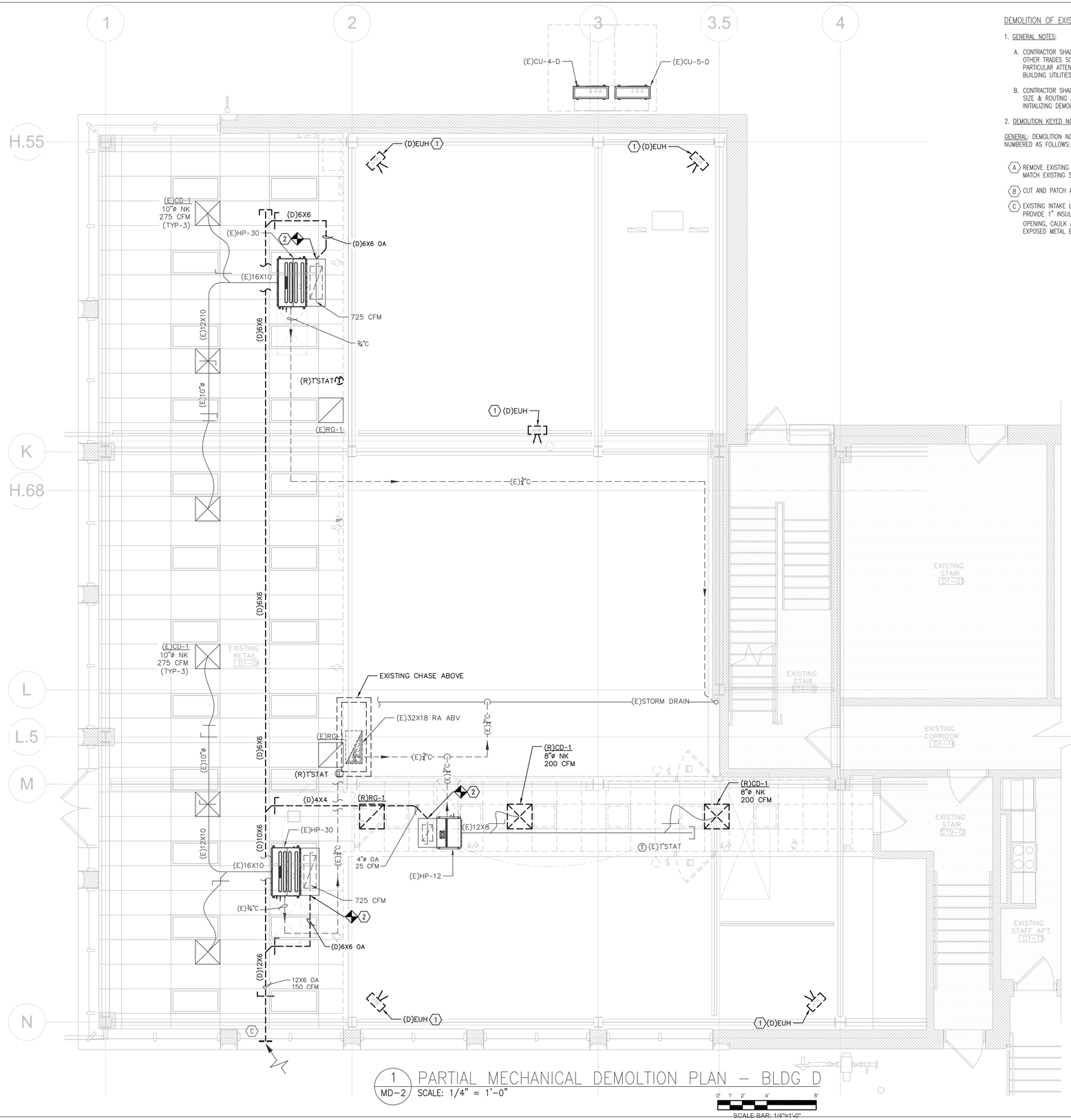
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL MECHANICAL
DEMOLITION PLAN -
BUILDING C - BASE BID

SHEET: 16 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: BTR	DRAWING NO. MD-1	REVISION
DATE: 05/22/2020		
PROJECT NO.:		



1 MD-2 PARTIAL MECHANICAL DEMOLTION PLAN – BLDG D
SCALE: 1/4" = 1'-0"

0' 1' 2' 4' 8'
SCALE BAR: 1/4"=1'-0"

DEMOLITION OF EXISTING SYSTEM NOTES:

1. GENERAL NOTES:

   A. CONTRACTOR SHALL COORDINATE THE REMOVAL OF MECHANICAL EQUIPMENT WITH OTHER TRADES SO AS NOT TO AFFECT THE OPERATION OF EXISTING SYSTEMS. PARTICULAR ATTENTION SHALL BE GIVEN TO UTILITY SERVICES, ELECTRIC, WATER AND BUILDING UTILITIES.

   B. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING EQUIPMENT, CONDENSATE PIPE SIZE & ROUTING AND ALL ASSOCIATED WITH THE EXISTING SYSTEM BEFORE INITIALIZING DEMOLITION.

2. DEMOLITION KEYED NOTES:

GENERAL: DEMOLITION NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL ⟨–⟩ AND ARE NUMBERED AS FOLLOWS:

⟨A⟩ REMOVE EXISTING ELECTRIC UNIT HEATER AND THERMOSTAT. PATCH & REPAIR TO MATCH EXISTING SURFACES.

⟨B⟩ CUT AND PATCH AIR TIGHT EXISTING PLENUM.

⟨C⟩ EXISTING INTAKE LOUVER TO REMAIN. DISCONNECT EXISTING DUCT TO BE REMOVED. PROVIDE 1" INSULATED SHEETMETAL PANEL BOTH SIDED OVER THE REMAINING WALL OPENING, CAULK AND SEAL AIR TIGHT. PROVIDE 1½" DUCT INSULATION OVER ANY EXPOSED METAL EDGES OF REMAINING EXISTING LOUVER.

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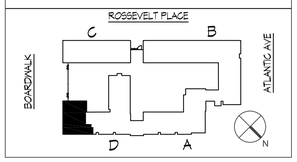
REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

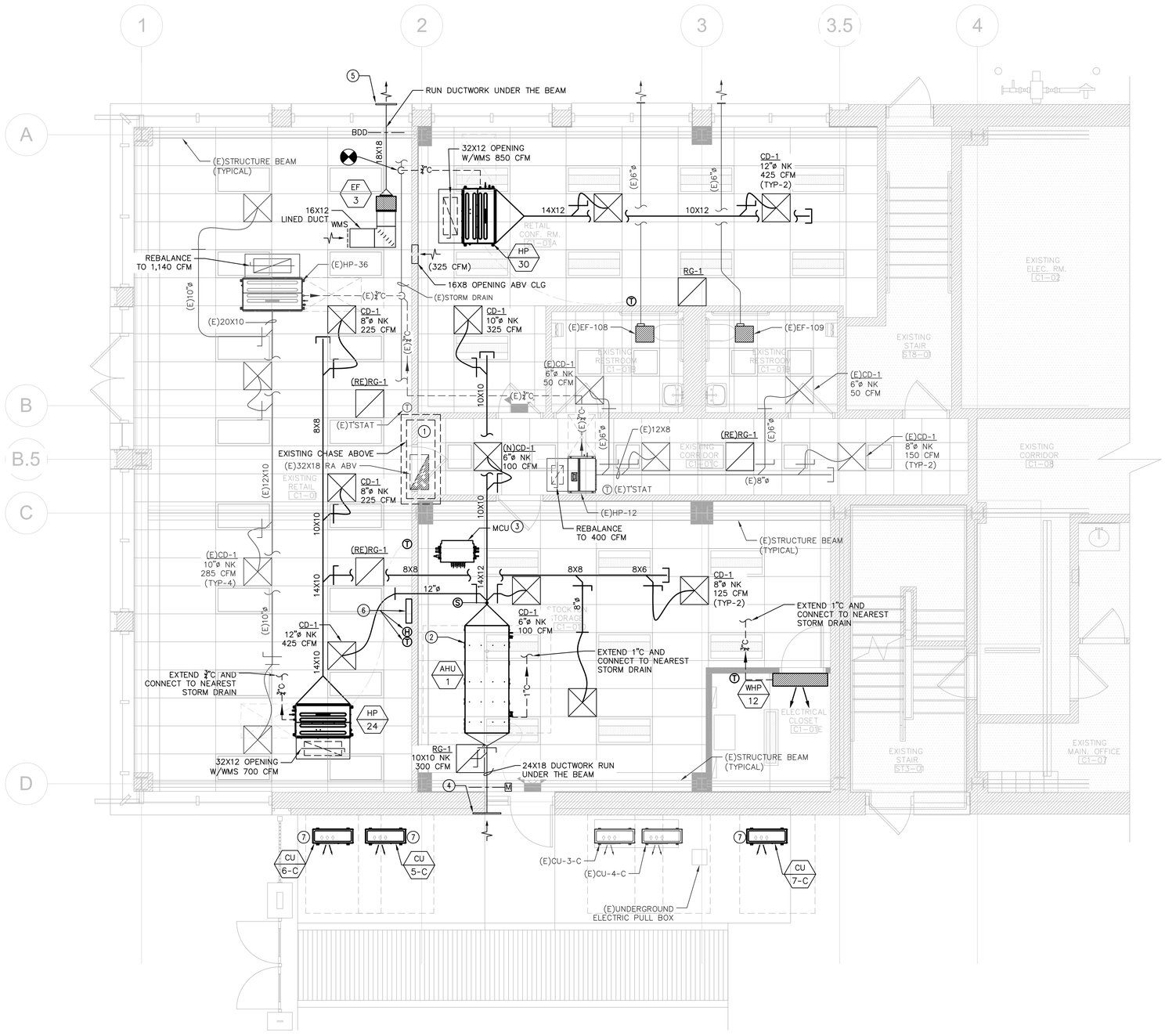
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL MECHANICAL
DEMOLITION PLAN -
BUILDING D - ALTERNATE BID

SHEET: 17 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. MD-2	REVISION	
DATE: 05/22/2020			
PROJECT NO.:			



1 / M—1 PARTIAL MECHANICAL NEWWORK PLAN — BLDG C

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

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

NEW WORK SYSTEM NOTES:

1. GENERAL NOTES:

   A. REFER TO MECHANICAL & ELECTRICAL LEAD SHEETS, M-0.1 & E-0 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.

   B. REFER TO DWG M-0.2 FOR SCHEDULES AND M-0.3 FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT.

   C. CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.

   D. COORDINATION OF ALL BUILDING-SIDE HVAC WORK WITH THE OWNER'S HVAC PERSONNEL IS A REQUIREMENT OF THIS PROJECT.

   E. CONTRACTOR SHALL INSTALL ALL (N)EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.

2. NEW WORK KEYED NOTES:

GENERAL: NEW WORK NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL (–) AND ARE NUMBERED AS FOLLOWS:

(1) INSTALL NEW AHU-1 REFRIGERANT PIPE UP TO NEW CU-1 ON ROOF IN EXISTING CHASE. CUT AND PATCH EXISTING SHAFT AS REQUIRED TO INSTALL NEW REFRIGERANT PIPE.

(2) PROVIDE EMERGENCY DRAIN PAN UNDER THE UNIT. PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE. PROVIDE OVERFLOW SWITCH W/FAN SHUTDOWN.

(3) MODE CHANGE UNIT (MCU) FOR AHU REFRIGERANT SYSTEM. COORDINATE LOCATION WITH MANUFACTURER. RIGIDLY ATTACH UNIT TO BUILDING. ELEC: 208V/1ø/60, MCA 2A, MOCP 15A.

(4) PROVIDE 24X18 INTAKE LOUVER WITH MOD. POTTORFF EFD-445 MIN. 1.2 FT² FREE AREA, 650 CFM, 525 FPM, 0.05" W.C. STATIC PRESSURE DROP. PROVIDE INSECT SCREEN. INSTALL BEHIND THE EXISTING PERIMETER LOUVER.

(5) PROVIDE 18X18 EXHAUST LOUVER WITH BDD. POTTORFF EFD-445 MIN. 0.8 FT² FREE AREA, 500 CFM, 625 FPM, 0.06" W.C. STATIC PRESSURE DROP. PROVIDE INSECT SCREEN. INSTALL BEHIND THE EXISTING PERIMETER LOUVER.

(6) PROVIDE AHU-1 TOUCH SCREEN CONTROL PANEL, T'STAT & RH SENSOR.

(7) PROVIDE EQUIPMENT SUPPORTS.

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Professional Engineer
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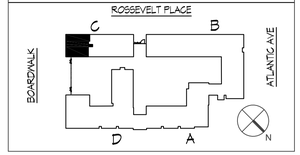
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

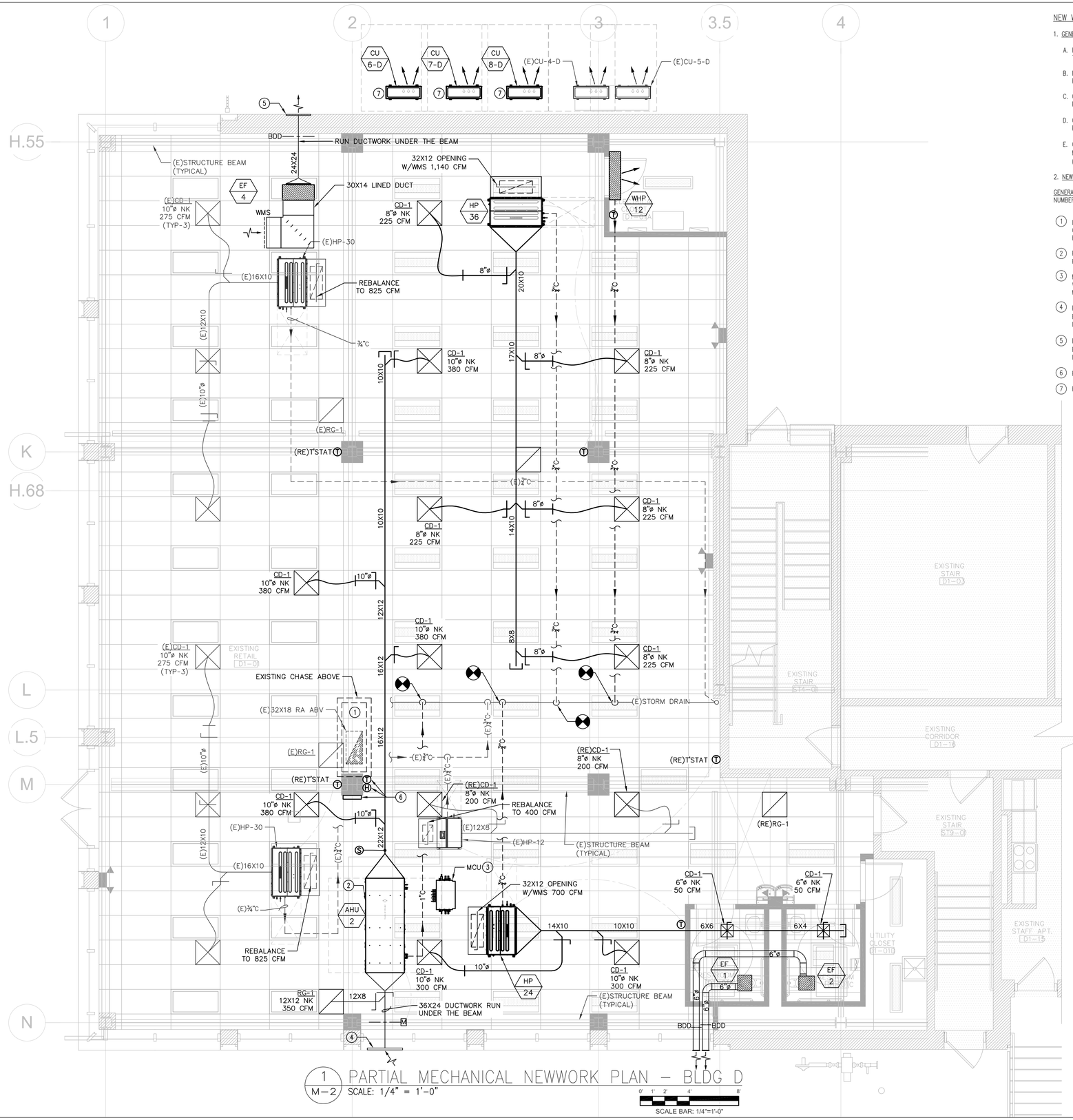
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL MECHANICAL
NEWWORK PLAN -
BUILDING C - BASE BID

SHEET: 18 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-1		REVISION
DATE: 05/22/2020			
PROJECT NO.:			



1 M-2 PARTIAL MECHANICAL NEWWORK PLAN – BLDG D

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

SCALE BAR: 1/4"=1'-0" (0' 1' 2' 4' 8')

NEW WORK SYSTEM NOTES:

1. GENERAL NOTES:

   A. REFER TO MECHANICAL & ELECTRICAL LEAD SHEETS, M-0.1 & E-0 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.

   B. REFER TO DWG M-0.2 FOR SCHEDULES AND M-0.3 FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT.

   C. CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.

   D. COORDINATION OF ALL BUILDING-SIDE HVAC WORK WITH THE OWNER'S HVAC PERSONNEL IS A REQUIREMENT OF THIS PROJECT.

   E. CONTRACTOR SHALL INSTALL ALL (N)EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.

2. NEW WORK KEYED NOTES:

GENERAL: NEW WORK NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL (–) AND ARE NUMBERED AS FOLLOWS:

(1) INSTALL NEW AHU-2 REFRIGERANT PIPE UP TO NEW CU-2 ON ROOF IN EXISTING CHASE. CUT AND PATCH EXISTING SHAFT AS REQUIRED TO INSTALL NEW REFRIGERANT PIPE.

(2) PROVIDE EMERGENCY DRAIN PAN UNDER THE UNIT. PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE. PROVIDE OVERFLOW SWITCH W/FAN SHUTDOWN.

(3) MODE CHANGE UNIT (MCU) FOR AHU REFRIGERANT SYSTEM. COORDINATE LOCATION WITH MANUFACTURER. RIGIDLY ATTACH UNIT TO BUILDING. ELEC: 208V/1ø/60, MCA 2A, MOCP 15A.

(4) PROVIDE 38X24 INTAKE AIR LOUVER WITH MOD. POTTORFF EFD-445 MIN. 2.7 FT² FREE AREA, 1175 CFM, 450 FPM, 0.05" W.C. STATIC PRESSURE DROP. PROVIDE INSECT SCREEN. INSTALL BEHIND THE EXISTING PERIMETER LOUVER.

(5) PROVIDE 24X24 EXHAUST AIR LOUVER WITH BDD. POTTORFF EFD-445 MIN. 1.7 FT² FREE AREA, 1075CFM, 630 FPM, 0.06" W.C. STATIC PRESSURE DROP. PROVIDE INSECT SCREEN. INSTALL BEHIND THE EXISTING PERIMETER LOUVER.

(6) PROVIDE AHU-2 TOUCH SCREEN CONTROL PANEL, T'STAT AND RH SENSOR.

(7) PROVIDE EQUIPMENT SUPPORTS.

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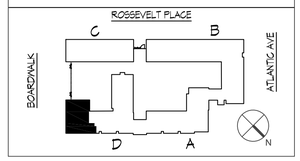
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

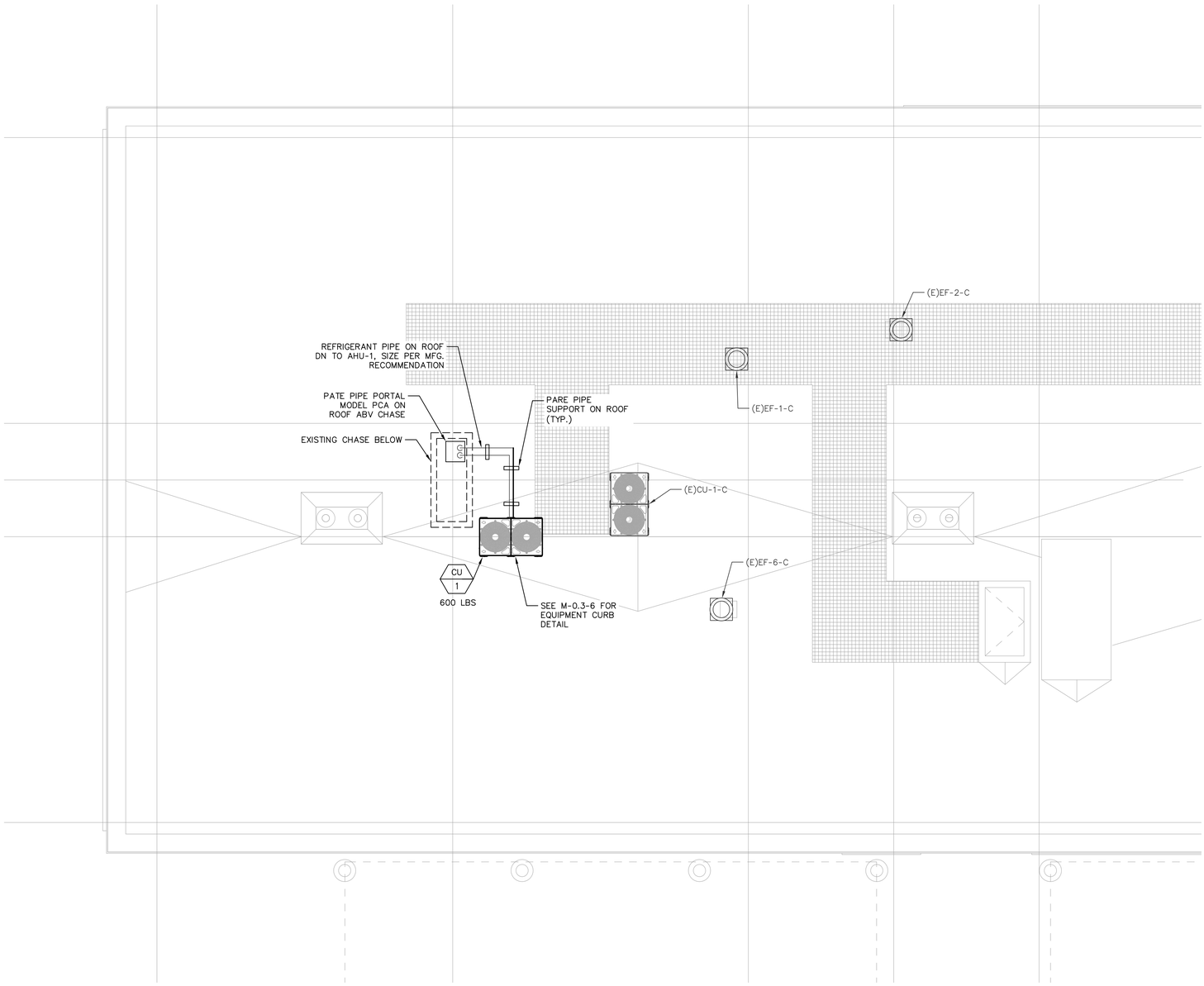
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL MECHANICAL
NEWWORK PLAN -
BUILDING D - ALTERNATE BID

SHEET: 19 OF 49

DRAWN BY: WFH		SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: BTR		DRAWING NO. M-2	REVISION
DATE: 05/22/2020			
PROJECT NO.:			



1 / M-3 PARTIAL MECHANICAL ROOF NEWWORK PLAN – BLDG C
SCALE: 1/4" = 1'-0"

0' 1' 2' 4' 8'
SCALE BAR: 1/4"=1'-0"

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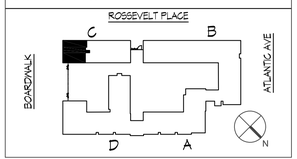


PROJECT:

PROPOSED WHITEBOX FITOUT

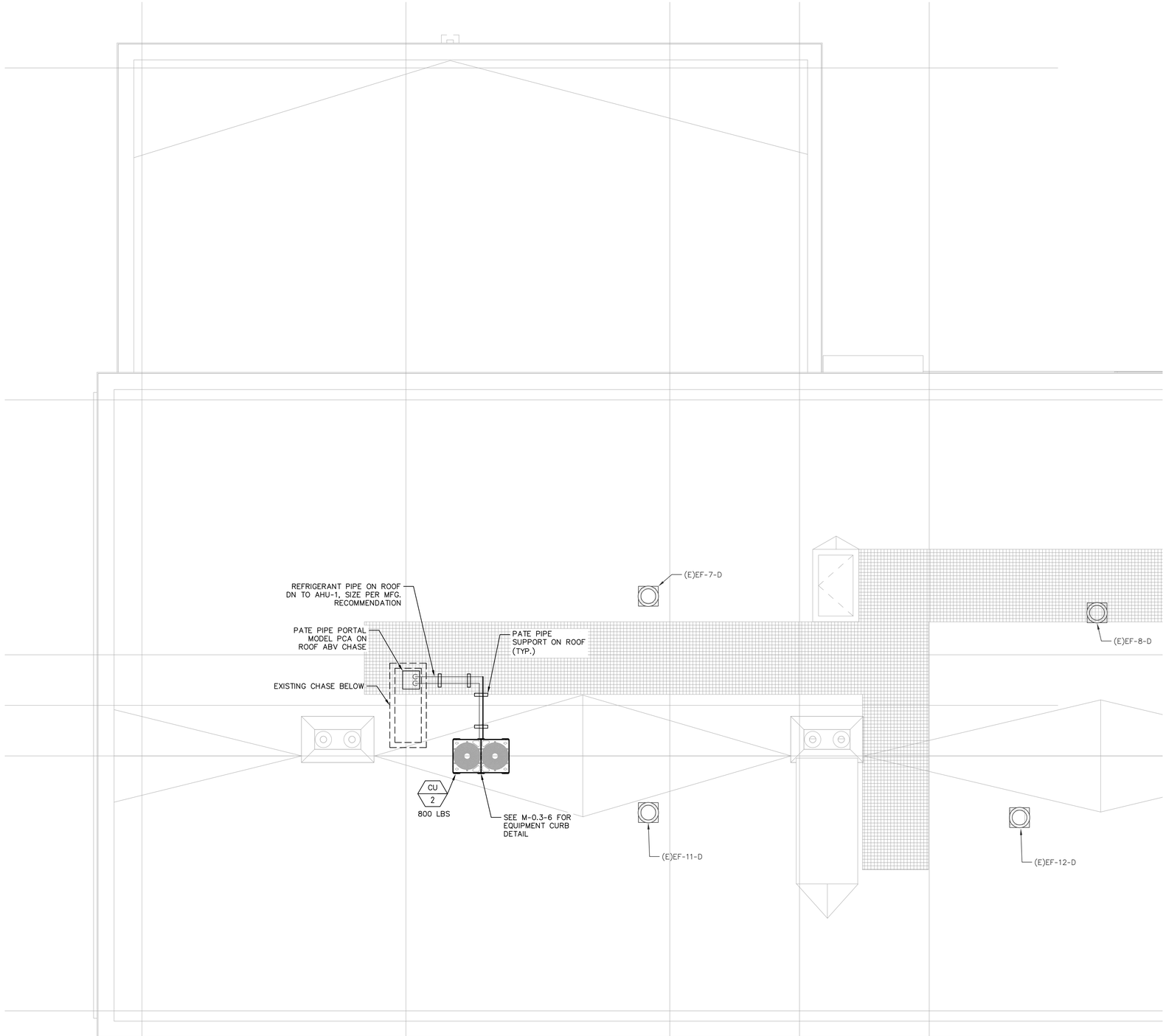
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL MECHANICAL ROOF NEWWORK PLAN - BUILDING C - BASE BID

SHEET: 20 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-3		REVISION
DATE: 05/22/2020			
PROJECT NO.:			



1 / M-4 PARTIAL MECHANICAL ROOF NEWWORK PLAN – BLDG D

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

SCALE BAR: 1/4"=1'-0" (0', 1', 2', 4', 8')

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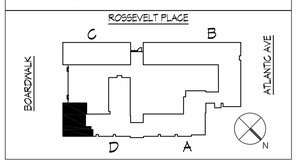


PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL MECHANICAL ROOF NEWWORK PLAN - BUILDING D - ALTERNATE BID

SHEET: 21 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-4		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

Dedicated Outside Air Split System and VRF/DOAS ATC Controls

1. Part 1 – General

1.1 SYSTEM DESCRIPTION

A. Provide dedicated outside air split. The unit is designed to introduce 100% outside air to the spaces indicated on the plans. The system provided shall be commercial type equipment. The DOAS shall consist of a heat recovery condenser, MCU (mode control unit), and an air handler with a Variable Frequency Drive (VFD) to control the fan speed that is specifically engineered to pair with the other equipment in the system. Provide Y joints necessary for a complete operation.

B. See plans for electrical requirement.

C. The Split DOAS shall perform as indicated below:

1. Each system shall perform in accordance to the ratings shown indicated on the plans.

(a) Incoming air must be preheated if below 23°F before entering the split DOAS unit.

(b) The cooling coil will only operate in cooling mode. The heating coil will operate in the heating mode or to maintain the required neutral leaving air temperatures as schedule.

1.2 PIPING

A. The specified VRF equipment manufacturer's Y-joint fittings must be used to branch the main refrigerant lines from the condenser to the different coils in the split DOAS unit.

B. The VRF equipment manufacturer's Tee fittings must be used to connect outdoor units for modular systems (system with more than one outdoor unit).

1.3 QUALITY ASSURANCE

A. The units shall be listed by Electrical Laboratories (ETL) and bear the ETL label.

B. All wiring shall be in accordance with the National Electrical Code (N.E.C.).

C. The units shall be manufactured in a facility registered to ISO 9001 and ISO14001 which is a set of standards applying to environmental protection set by the International Standard Organization (ISO).

D. A full charge of R-410A for the condensing unit only shall be provided in the condensing unit. Additional refrigerant is required based on diameters and lengths of system liquid refrigerant lines and indoor equipment model and quantity.

E. The installing contractor must have attended the specified manufacturers installation training prior to installing the system.

F. Service and installation manuals must be readily available on the manufacturer's website without entering a username and password.

2. Part 2 – Products

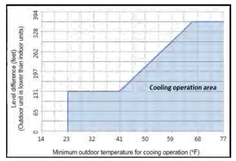
2.1 HEAT RECOVERY OUTDOOR UNIT

A. General:

The heat recovery outdoor unit shall be used specifically with specified manufacturers equipment. The heat recovery outdoor unit shall consist of the outdoor unit, MCU (Mode Control Unit), and DOAS unit, and manufacturers network control systems. The outdoor units shall be equipped with multiple circuit boards that interface to the manufacturers control network systems) and shall perform all functions necessary for operation. The outdoor unit shall have a powder coated finish. The outdoor unit shall be completely factory assembled, piped and wired. Each unit shall be run tested at the factory.

1. The heat recovery system shall have the ability of simultaneous heating and cooling operation modes on all split DOAS units.
2. The Heat Recovery condensing unit salt spray test method: ASTM B117-18, - the heat exchanger showed no unusual rust or corrosion development to 2,280 hours.(Provide seacoast coatings and construction)
3. The heat recovery system shall have the ability to change operation mode (MAIN heating / MAIN cooling) without turning off the compressors allowing for constant heating and cooling operation.
4. The heat recovery system shall have rotational defrost capability (modular systems only) to perform defrost operations while still providing heat to indoor units (operation and conditions restrictions exist).
5. The outdoor unit shall have advanced oil recovery cycle logic operation that shall not interrupt heating or cooling operation. The oil recovery cycle duration shall not exceed three (3) minutes while in cooling mode or six (6) minutes while in heating
6. mode. While in heat mode, any defrost cycle lasting over three (3) minutes shall be considered an oil recovery cycle.
7. Advanced intelligent defrost logic to significantly reduce defrost cycle frequency by monitoring air resistance across the condenser coil during heating operation to determine defrost operation initiation to prevent unnecessary defrost cycles (applies to models manufactured after 2014).
8. The heat recovery system shall have installer enabled snow blowing settings to prevent snow accumulation on top of unit.
9. The heat recovery system shall have optional night quite modes to reduce unit sound in evenings reducing fan and/or compressor sound (4 level settings).
10. The heat recovery system shall have current control to limit current (50% - 100% of design current) adjustable at outdoor unit or central web accessible, control devices: MIM-D01AUN, MIM-B17BUN, and MIM-B18BUN.

11. The heat recovery system compressors shall be per specified manufacturer, hermetically sealed, inverter driven, flash injected, asymmetric, DC scroll type. No fixed capacity compressors will be present in the refrigerant system.
12. Outdoor unit (individual modules) shall have a sound rating no higher than 65 dB (A).
13. All three refrigerant lines from the outdoor unit to the MCU (heat recovery Mode Control Unit) shall be insulated.
14. The heat recovery system shall allow adjustment of target evaporator coil temperatures in cooling mode and target heating discharge pressures depending on project conditions for heating and cooling calibration thus saving energy
15. The heat recovery outdoor unit shall have an accumulator with ARV (accumulator return valve) control.
16. The heat recovery outdoor unit shall have a high-pressure safety switch, high voltage fuses, over-current protection, phase detection protection, thermal fan protection, low pressure protection, compressor overcurrent protection, fan motor voltage protection, current transformer(s), crank case heating, and intelligent logic to ensure proper operation within unit design limitations and operational parameters.
17. The inverter compressor PCB(s) shall be cooled with liquid refrigerant circuit(s) to operate at optimal temperatures and to prevent failure due to overheating. No compressor inverter PCB's shall be cooled by air over heat sink. Cooling inverter components without air-cooling fins prevents failure due to environmental contaminants.
18. The heat recovery outdoor unit shall have the ability to operate with a maximum height difference of 361 feet with the condensing unit installed higher than the indoor units (with modified piping and PDM kit when greater than 164 feet). The heat pump outdoor unit shall have the ability to operate with a maximum height difference of 361 feet with the condensing unit installed lower than the indoor units (conditions apply when over 131, see graph below). Maximum 3,280 feet total refrigerant tubing length. The greatest length is not to exceed 656 (722 equivalent) feet between outdoor unit and the farthest indoor unit.



19. The heat recovery outdoor unit shall be capable of operating in heat mode between -13°F ~ 125°F ambient temperatures, while in mixed operation mode.

20. The heat recovery outdoor unit shall be capable of operating in cool mode between 23°F to 120°F ambient temperatures as standard.
21. The heat recovery outdoor unit shall have high efficiency, individual oil separator(s) for each compressor plus additional logic controls to ensure adequate oil volume in the compressor is maintained.
22. The heat recovery outdoor unit shall have a flat-plate type subcooler to subcool liquid refrigerant further to increase capacity and performance with long pipe lengths and to decrease refrigerant sounds at indoor equipment.
23. The compressors shall have flash injection capability to increase performance in heating mode only. This will be automatically enabled by the outdoor unit(s) by forcing saturated refrigerant as a liquid flash mix directly into the scroll compression cycle increasing mass flow and overall system capacity. Compressors without flash injection shall not be present in the VRF heat recovery system.
24. The heat recovery outdoor unit shall have a removable EEPROM at the main PCB to store all unit data. All data on the outdoor unit EEPROM shall be viewable from the manufacturer provided service software. The outdoor unit main EEPROM shall be removable allowing replacement of outdoor unit PCB without losing digital, field programmed data. The outdoor unit removable EEPROM shall store the following unit data: unit model number, unit serial number, unit main PCB firmware and MICOM version, sub-PCB firmware and MICOM version, fan PCB firmware and MICOM version, inverter PCB 1 and inverter PCB 2 firmware and MICOM version, auto-trial commissioning startup data, the last 30 minutes of operation data, and field programmed unit name/tag viewable on controls and service software.
25. The heat recovery outdoor unit shall have the ability to discharge inverter PCB capacitor voltage using service buttons on the outdoor unit main PCB. The capacitor stored-voltage discharge feature shall allow safe inverter PCB replacement.
26. The heat recovery outdoor unit shall have outdoor unit pump-down operation capability allowing storage of refrigerant while opening sealed refrigerant pipe system outside of outdoor unit chassis while performing service. The outdoor unit refrigerant storage shall be greater than the supplied factory R-410A charge.
27. The heat recovery outdoor unit shall have individual outdoor module pump-out operation capability allowing the majority of refrigerant in an outdoor unit to be pumped out. The pump-out feature shall allow service of sealed refrigerant system within an outdoor unit chassis.
28. The heat recovery outdoor unit shall allow temporary disabling of individual compressors to allow system operation at reduced capacity after a compressor or compressor component related issue (when more than one compressor is present in system). Disabling of a compressor shall temporarily remove error codes and allow system operation.
29. The heat recovery outdoor unit compressors shall have a soft-start function to reduce electricity demand during system start and to increase compressor reliability.

30. In the event of system error due to outdoor unit failure, the heat recovery outdoor unit shall display codes that specify a precise error and which outdoor unit PCB is the cause (main PCB, HUB PCB, IPM 1, IPM 2, fan PCB).

B. Unit Cabinet:

1. The chassis shall be fabricated of galvanized steel, bonderized and finished with a powder coated baked enamel.

C. Fan:

1. The heat recovery outdoor unit shall be furnished with the fan quantities, two fans for each outdoor unit.

D. General:

1. All fan motors shall be variable speed BLDC type.
2. All fan motors shall have inherent protection, thermal protection, and have permanently lubricated bearings, and be completely variable speed.
3. All fan motors shall be mounted for quiet operation.
4. All fans shall be provided with a raised guard to prevent contact with moving parts.
5. The heat recovery outdoor unit shall have vertical discharge airflow.
6. The heat recovery outdoor units shall have the capability for ducting of discharge air up to 0.32" WC static pressure with factory provided dimensional design drawings. The heat recovery outdoor units shall not require any field installed components or component modification to allow ducting of discharge air.

E. Refrigerant

1. R410A refrigerant shall be required for the heat recovery outdoor systems.
2. Additional refrigerant is required. Amount is based on installed liquid refrigerant pipe diameters and lengths and indoor equipment model number and quantity.
3. Modular systems shall require outdoor refrigerant kits for module connection as noted in the table below. Only the specified manufacturer outdoor Tee's are permitted.

F. Coil:

1. The outdoor coil shall be of nonferrous construction with lanced or corrugated plate fins on copper tubing.
2. The Heat Recovery condensing unit salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development to 2,280 hours. (Provide Seacoast construction.)
3. The coil shall be protected with an integral metal guard.

4. Refrigerant flow from the outdoor unit shall be controlled by means of capacity modulation capable, flash injected, DC inverter, scroll compressor).

G. Compressor:

1. The 460 VAC heat recovery systems shall have the compressor quantity noted on the plans. All compressors shall be modulation capable, flash injected, DC inverter, scroll type.

H. General:

1. Crankcase heaters shall be factory mounted on the compressors. For units without crankcase heaters, the compressors shall be warmed by the compressor inverter control PCB and motor windings.
2. The outdoor unit compressor shall have variable modulation technology to modulate capacity. System capacity shall be completely variable down to 7,513 Btu/h.
3. The outdoor unit compressor(s) shall have flash injection technology which can increase the mass flow rate of refrigerant and offset refrigerant condensing temperatures resulting in a capacity and performance improvement in heating mode. Compressors without flash injection shall not be present in the VRF heat recovery system.
4. The compressor(s) will be equipped with an internal thermal overload.
5. The compressor(s) shall be mounted to avoid the transmission of vibration.

I. Electrical:

1. The outdoor unit shall be controlled by integral microprocessors.
2. The control circuit between the indoor units, MCU (Mode Control Unit) and the outdoor unit shall be 0.5VDC - 7VDC completed using stranded, annealed copper conductor, two-core, 16 AWG, shielded cable to provide total integration of the system (F1/F2).

2.2 MCU (MODE CONTROL UNIT) FOR HEAT RECOVERY SYSTEMS

A. General:

The MCU (Mode Control Unit) shall be specifically used with R410A, heat recovery units. These units shall be equipped with a circuit board that interfaces to the manufacturers network control systems and shall perform all functions necessary for operation. The unit shall have a galvanized steel finish. The MCU shall be completely factory assembled, piped and wired. Each unit shall be run tested at the factory. The unit shall be mounted indoors.

Provide two compatible models of Mode Control Units to the DOAS systems: MCU-S2NEK2N, and MCU-S4NEK3N. The below table identifies manufacturers MCU models and DOAS compatibility.

System Model Number	*MCU Compatibility*
AM120NNDDCV/AA	MCU-S4NEK3N
AM200NNDDCV/AA	MCU-S2NEK2N

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No.	Date	Description
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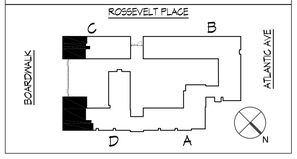
KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

MECHANICAL SPECIFICATIONS

SHEET: 22 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-5		REVISION
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PROJECT NO.:			

AM300NNDDCV/AA	MCU-S2NEK2N

1. MCU-S2NEK2N shall have 2. Two (2) adjacent ports shall be twinned using Y-Joint part numbers DB96-23143A and DB96-23144A (purchased separately. The twinned port will be piped directly to the reheat coil.

2. MCU-S4NEK3N shall have 4 ports. Two (2) adjacent ports shall be twinned using Y-Joint part numbers DB96-23143A and DB96-23144A (purchased separately). One pair will be piped to the cooling coil, and the other pair will be connected to the reheat coil.

B. MCU (Mode Control Unit) Cabinet:

1. The chassis shall be fabricated of galvanized steel.

2. Each cabinet shall house multiple refrigeration control solenoid valves and electronic expansion valves.

3. MCU-S2NEK2N shall house two tube-in-tube subcooling devices with electronic expansion valve and temperature sensors to maintain design refrigerant temperatures (sub cooling). All pipe connections shall be braze type.

4. MCU-S4NEK3N shall house four tube-in-tube subcooling devices with electronic expansion valve and temperature sensors to maintain design refrigerant temperatures (sub cooling). All pipe connections shall be braze type.

C. Refrigerant:

1. R410A refrigerant shall be required for MCU's (Mode Control Units).

D. Refrigerant valves:

1. The unit shall be furnished with multiple two position solenoid valves.

2. Electronic expansion valves and solenoid valves shall be used to control the variable refrigerant flow inside each MCU (Mode Control Units).

E. Integral Drain Pan:

1. MCU-S2NEK2N and MCU-S4NEK3N shall include an integral condensate pan. Drain connection is not required

F. Electrical:

1. The unit electrical power shall be 208/230 volts, 1 phase, and 60 hertz.

2. The unit shall be capable of satisfactory operation within voltage limits of 187-228 volts (208V/60Hz) or 207-253V (230V/60Hz).

3. The MCU (Mode Control Unit) shall be controlled by integral microprocessors.

4. The control circuit between the indoor units, MCU (Mode Control Unit) and the heat recovery outdoor unit shall be 0.5VDC - 7VDC completed using stranded, annealed

copper conductor, two conductor, 16 AWG, shielded cable to provide total integration of the system.

2.3 SPLIT DOAS UNIT (FRESH ACCESS-DEDICATED OUTSIDE AIR SYSTEM)

A. General:

The split DOAS unit shall be a high-performance, high static pressure capable, concealed ducted unit, for indoor installation only, with a fixed horizontal discharge supply and shall have a modulating expansion devices (gear type). The high static pressure capable, concealed ducted unit shall be compatible with the specified heat recovery outdoor units and MCU (Mode Control Unit). The Split DOAS unit shall support individual control using the manufacturers network control system.

See plans for unit ratings and performance ratings.

Each system shall perform in accordance to the ratings shown in the table below.

B. Indoor Unit.

1. The split DOAS unit shall be factory assembled, wired and run tested. Contained within the unit shall be all factory wiring, piping, electronic modulating linear expansion devices, control circuit board and fan motors. The unit shall have a self-diagnostic function, 3-minute time delay mechanism, and an auto restart function.

2. The specified model requires an MCU for the main and reheat coils. Use manufacturers design software to determine all necessary components.

3. The specified models require an MCU for the reheat coil. Use manufacturers design software to determine all necessary components.

4. The split DOAS unit shall have an enthalpy sensor, (Honeywell C7400C) in the return air stream, to manage the system logic based on the incoming outside air.

5. The split DOAS unit discharge air temperature range will vary, depending on the unit's model, pipe length, and incoming air temperature.

6. The split DOAS unit discharge temperature sensor reading shall be visible on central control options and manufacturer provided service software.

7. The unit option settings, address settings, and MCU address settings are programmed during manufacturing to simplify installation and setup.

8. The split DOAS unit discharge temperature setting shall be controllable via central control options (MIM-D00AN, MIM-D01AUN, MIM-B18N, MIM-B18BUN, MIM-B17N, and MIM-B17BUN) and MWR-WE13N and MWR-WE11N, wired controllers (in service setting section). The MIM-B17BUN BACnet gateway shall also allow discharge air temperature control via BACnet protocol.

9. The split DOAS will provide heat in ambient temperatures up to 125°F (51.6 °C). Refer to simulated capacity and discharge air temperatures in DVM Pro design software.

10. The split DOAS unit requires incoming air below 23°F to be preheated.

C. Unit Cabinet:

1. The cabinet shall be constructed of 2" double skin baked PU casing

D. Fan:

1. The split DOAS unit fan type should be a Direct-drive, plenum fan with VFD.

2. External static pressure data is provided in the table below.

3. The indoor fan shall be statically and dynamically balanced to run on a motor with permanently lubricated bearings. The maximum static pressure shall be 2.5".

4. The indoor fan shall consist of three (3) speeds, High, Mid, and Low.

E. Filter:

1. Incoming air must be filtered. A disposable MERV8 filter is included as standard.

2. Standard factory installed integral filter rack included.

F. Coil:

1. The indoor coil shall be of nonferrous construction with slit fins on copper tubing.

2. The tubing shall have inner grooves for high efficiency heat exchange.

3. All tube joints shall be brazed with phos-copper or silver alloy.

4. The coils shall be pressure tested at the factory.

5. Condensate pans and drain shall be provided under the coil.

6. There shall be two condensate connections.

7. The condensate shall be gravity drained from the fan coil.

8. Provide Seacoast construction and coatings

G. Electrical:

1. The unit electrical power as indicated on drawings.

H. Controls:

1. The unit ships with an MWR-WE13N wired controller in the control panel. This is provided for the configuration and control. This wired controller can be installed remotely if required. The wire can be extended up to 328 feet. Only "N" series wired controllers can be connected.

2. The unit can be controlled via central controls. Provide manufacturers central control gateway options will allow integration to standard building management systems.

3. Discharge air temperature can also be set with a simple BMS via 0-10 VDC input to the reheat coil PCB (lower PCB in control panel).

4. The indoor unit shall have a removable EEPROM on its PCB to store all unit data. All data on the indoor unit EEPROM shall be viewable from the manufacturer provided service software. The indoor unit main EEPROM shall be removable allowing replacement of indoor unit PCB without losing digital, field programmed data. The indoor unit removable EEPROM shall store the following unit data: unit model number, unit serial number, unit PCB firmware and MICOM version, and field programmed unit name/tag viewable on controls and service software.

3. Part 4 – Controls

3.1 OVERVIEW

A. General:

The manufacturers existing DVM Controls Network Solution shall be capable of supporting remote controllers, schedule timers, system controllers, centralized controllers, an integrated web based interface, graphical user workstation, and system integration to Building Management Systems via BACnet® and LonWorks®. Integrate the new equipment specified into the existing Samsung control system. The existing Samsung control system is presently integrated into Tozour Automation control system serving the existing dorm building. Provide expansion of both the existing Samsung control system and the existing Trane control system as necessary to have a completes operable system.

B. Electrical Characteristics:

1. The DVM S Controls Solution shall operate at 12V DC (excluding MCM-A202DN ON/OFF Controller). Controller power and communications shall be via a common communications bus.

C. Wiring:

1. Main system control wiring (COM1, F1/F2) shall be installed in a system daisy chain configuration from the indoor equipment to MAIN outdoor unit. This cable shall be 16 AWG X 2, shielded cable.

2. Zone control wiring (COM2, F3/F4) to wired remote controllers (MWR-****N) shall be run from the indoor unit terminal block to the controller associated with that unit. This cable shall be 16 AWG X 2, shielded cable.

3. Control wiring for system controllers and centralized controllers (upper level) shall be installed in a daisy chain configuration from water-source unit to water-source unit (R1/R2), to system controllers.

4. Communication wire connection (OF1/OF2) between water-source unit modules (systems with 2 or more modules) must be connected from the MAIN unit to SUB1 and SUB2 (where applicable). This wire shall be 2-conductor, 16 AWG X 2, shielded cable.

5. MST-P3P (S-Net3 software) shall be capable of being networked with up to 16: MIM-D00AN (DMS2), MIM-D01AUN (DMS2.5), MIM-B17N (BACnet gateway 2.0), MIM-B17BUN (BACnet gateway 2.5), MIM-B18 (LonWorks gateway2.0), and/or MIM-B18BUN (Lon Works gateway 2.5) system controllers for web/LAN based control for consolidated control.

D. Wiring type:

1. COM1 and COM2 control wiring shall be 2-conductor, 16 AWG X 2, shielded cable.

2. Network wiring shall be CAT-5e with RJ-45 connection.

3.2 DVM CONTROL NETWORK SOLUTION (VRF and DOAS System)

A. General:

The existing SAMSUNG DVM S NASA Control Network Solution which consists of remote controllers, system controllers, centralized controllers, and/or integrated web based interface communicating over a high-speed communication bus. Connect and extend the new specified DOAS air handles and split systems to the existing Samsung control Network. The SAMSUNG DVM S NASA Control Network Solution shall support operation monitoring, scheduling, error monitor, power distribution, personal browsers, tenant billing, online maintenance support, and integration with existing Tozour Automation System Building Management Systems (BMS) using either LonWorks® or BACnet® interfaces.

B. TYPICAL VRF SYSTEM SEQUENCE OF OPERATION

1. The VRF system is a Samsung Split System , which allows for each indoor unit to heat or cool as needed to maintain space temperature setpoint.

2. The indoor units, outdoor units, and mode control units will operate via their factory provided and installed controls to maintain the space temperature setpoint of each area served.

3. Tozour Automation has installed an existing VRF-SC system for each VRF systems for existing building C & D. The existing VRF-SC acts as a Bacnet interface to allow the bas to schedule and monitor the status of the VRF systems.

4. The VRF system will initially operate in the occupied mode as schedule by the owner.

C. The BAS will monitor the following points on the VRF system:

1. Indoor unit mode status

2. Indoor unit space temperature

3. Indoor unit space temperature setpoint

4. Indoor unit space setpoint low limit enable

5. Indoor unit space setpoint low limit

6. Indoor unit space setpoint high limit enable

7. Indoor unit space setpoint high limit

8. Indoor unit error code

9. Outdoor unit compressor status

10.Outdoor unit error code

D. TYPICAL DOAS SYSTEM SEQUENCE OF OPERATION

1. The DOAS System consist of an air handle with a supply fan, DX cooling and heating coils, which allows for each indoor unit to heat, reheat or cool as needed to deliver a neutral leaving air temperature setpoint to the space of 72F/ 50%RH Max. and as scheduled on the construction documents.

2. The indoor units, outdoor units, and mode control units will operate via their factory provided and installed controls to maintain the discharge temperature setpoint of each area served. The respective motor operated outside air damper shall open whenever the air handling unit is in operation. The reverse shall occur when the unit is shut down.

3. Tozour Automation installed an existing VRF-SC system for each VRF systems for existing building C & D. The VRF-SC acts as a Bacnet interface to allow the bas to schedule and monitor the status of the VRF systems.

4. The DOAS system will initially operate in the occupied mode as schedule by the owner.

The BAS will monitor the following points on the VRF system:

1. Indoor unit mode status

2. Indoor unit discharge air temperature

3. Indoor unit space temperature setpoint

4. Indoor unit space setpoint low limit enable

5. Indoor unit space setpoint low limit

6. Indoor unit space setpoint high limit enable

7. Indoor unit space setpoint high limit

8. Indoor unit error code

9. Outdoor unit compressor status

10.Outdoor unit error code

11. Outdoor air temperature

12. Space relative humidity

13. Cooling coil leaving air temperature

14. Heating (Reheat) coil leaving air temperature

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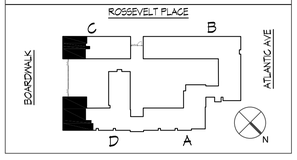
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

MECHANICAL SPECIFICATIONS

SHEET: 23 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-6		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

15. DOAS AHU-1 – Interlock new EF -3 to operate whenever AHU-1 is in operation.

a. Provide Exhaust fan status at the BAS for each exhaust fan.

16. DOAS AHU-2 – Interlock new EF-4 to operate whenever AHU-2 is in operation.

b. Provide Exhaust fan status at the BAS for each exhaust fan.

17. Provide motor operated outside air damper status at the BAS for each damper.

3.3 MULTI-FUNCTION CONTROLLER – PREMIUM INDIVIDUAL WIRED CONTROLLER (MWR-WE13N)

A. Connection:

1. The wired controller shall control up to 16 SAMSUNG indoor units or SAMSUNG ERV's (defined and controlled as one group).

B. Dimensions:

1. The wired controller shall be approximately 4 5/8" x 4 7/8" in size and white in color

C. The wired controller shall control indoor units as follows:

1. Air handler and ERV unified controller
2. Air handler operation ON/OFF
3. Air handler operation mode, set temperature, air flow direction, fan speed, individual louver control (with supported indoor units), discharge air temperature (with supported indoor units)
4. Quiet and sleep modes
5. Error display
6. Filter replacement alarm display and reset
7. Single indoor unit control or multiple unit control (maximum 16 units)
8. Energy saving operation:
   (a) Upper/lower temperature setting
   (b) Automatic operation stop function
   (c) Energy saving operation mode
   (d) Weekly operating schedule setting:
   (e) Weekly operating schedule (A/C only, ERV only, A/C + ERV)

9. Options to set: desired A/C operation mode, setting temperature, power mode (ON/OFF), and fan speed to operate based on weekly or daily schedules
10. Optional schedule exception day setting

D. Other wired controller features:

1. Different button permission levels
2. Partial button lock option (on/off, selection, temperature setting, fan speed, and schedule setting buttons can be locked individually)
3. Backlight
4. Daylight savings clock advance option
5. Upper and lower temperature setting restriction
6. Auto mode skip
7. Heat mode skip (cooling only)
8. Restrict wireless controller signal (optional)
9. Louver position setting (cassette and wall units)
10. Individual louver/blade control for 4-way and mini 4-way cassettes.
11. Individual air direction control for 360 Cassette indoor units.
12. Auto-off option to automatically turn the associated indoor unit(s) off after the specified time without any interaction with the wired controller.
13. System/indoor unit function and operation indication (defrost, error, restricted controller, SPi status)
14. Quiet Mode setting (for supported units)
15. Service mode for connected indoor unit operation monitoring, addressing, and setup
16. Can be used to specify "Mode Master" while connected to a single indoor unit when used with heat pump systems.
17. Real-time clock function - current time/day display function
18. Built-in room temperature sensor
19. Indoor unit operation state display
20. Service mode support (Indoor unit addressing, indoor unit cycle data monitoring, option code monitoring and setting, and option setting/monitoring).

21. Time synchronization with central DMS2.5 central control gateways (MIM-D01AUN, MIM-B17BUN, MIM-B18BUN).

E. MWR-WE13N specific features:

1. Wind-Free™ display and control for supported indoor unit models.
2. Motion Detection Sensor Control (On/Off, Indirect/Direct) for supported indoor unit models. Applies to optional MDS MCR-SMA, MCR-SMC, and MCR-SMD. Indirect/Direct control only applies to supported units that have MCR-SMC and MCR-SMD installed.
3. Clean and Long reach function for supported indoor unit models.

F. Specifications:

1. Two (2) conductor connection, PLC, (F3/F4).
2. DC 12V (power supplied by indoor unit via F3/F4 connection).
3. RS485 communication (F3/F4).
4. Can sense temperature via internal sensor, temperature sensor inside the air handler, or use the average temperature between controller and air handler temperature sensors.
5. The wired controller shall have two screw terminals for wiring connections. Wire is not included with controller.
6. 16AWG X 2 shielded cable is necessary for proper operation.
7. The wired controller shall allow up to 328 feet of wire from the farthest connected indoor unit to the controller.

Multi-Function Controller			
Item	*Description*	*Operation*	*Display*
ON/OFF	Run and stop operation for a single group including Samsung ERV operation	Each Group	Each Group
Operation Mode	Switches between Auto/Cool/Dry/ Fan/Heat	Each Group	Each Group
Temperature Setting	1. Sets temperature for a single group. 2. Range of temperature setting a. Auto/Cool/Dry: 65°F-86°F b. Heat: 61°F-86°F 3. Setting discharge outlet air temperature for supported indoor units.	Each Group	Each Group
Discharge Air Temperature Setting	Sets temperature for supported ducted units	Each Group	Each Group

Multi-Function Controller			
Item	*Description*	*Operation*	*Display*
Fan Speed Setting	1. Models with 3 air flow speed settings: High /Mid/Low/Auto 2. Wind-Free™ mode enable/disable (MWR-WE13N only) 3. Motion Detection Sensor Control 4. Clean and Long reach function for supported indoor unit models.	Each Group	Each Group
Air Flow Direction Setting	1. Air flow 2-step direction (Swing/Stop) 2. Direct setting at a specific angle. 3. Air flow operation varies depending on the model.	Each Group	Each Group
Weekly Schedule	1. ON/OFF/Temperature setting can be done at most 10 schedules may be set for each day. 2. Real-time clock function: current time, day display function	Each Group	Each Group
Button lock	1. Button permission level setting (On/Off / Temperature setting / Mode button / Fan speed) 2. Temperature limit setting 3. After power reset, the setting value is restored 4. Various restriction capabilities	Each Group	Each Group
Specified Function	1. Automatic stop setting (setting time range: 0-12 hours) 2. Energy saving operation mode (IDU+ERV or ERV operation only depending on outdoor temperature)	Each Group	Each Group

Multi-Function Controller			
Item	*Description*	*Operation*	*Display*
Service Mode	1. Viewing/Setting indoor unit option code 2. Viewing/setting indoor unit MAIN address 3. Viewing/setting indoor unit RMC address 4. Viewing indoor unit cycle data 5. Setting/Viewing temperature sensor compensation of the wired remote controller (-9°F~ +9°F) 6. Viewing RPM compensation 7. Viewing/setting EEV stop step when indoor unit is thermal-off during heating mode 8. Viewing/setting filter reminder time interval (1000 hours, 2000 hours) 9. Viewing/setting indoor unit temperature sensor compensation during Heating (+2°F or +5°F) 10. Viewing the H/W option setting 11. Viewing wired remote controller software version 12. Viewing/setting individual louver lock	Each Unit	Each Unit
Blade	Setting individual blade positions on 4-Way Cassette (AM0***N4DCH/AA)	Each Unit	Each Unit
Error	When an error is currently occurring in the system, the afflicted unit and the error code are displayed	Each Group	Each Group
Permit / Prohibit Local Operation	Setting/releasing of simplified locking of remote control buttons	Each Group	N/A
Quiet Mode	Select the quiet mode to lower the fan noise level.	Each Group	N/A
Room Temperature	Actual room temperature or set temperature can be displayed	Each Group	Each Group

**Some features may not be available depending on the model of connected air handler(s).*

**The Wind-Free™ unit delivers an air current that is under 0.15 m/s while in Wind-Free™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE 55-2013 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).*

3.4 BACnet® GATEWAY 2.5 (MIM-B17BUN)

A. Function:

1. Easy control and monitoring through web browser (optimized for Internet Explorer). Individual/Group control of up to 256 indoor units including SAMSUNG ERV, air handlers, DVM Chiller, and DVM Chiller FCU Kits.
2. The BACnet® gateway shall have basic operation controls which can be applied to an

individual indoor unit, a group of indoor units (up to 256 indoor units), or all indoor units (collective batch operation). This basic control set of operation controls for the BACnet® gateway shall include on/off, operation mode selection (auto, cool, heat, dry, and fan), temperature setting, fan speed setting, airflow direction setting, error email notification, temperature limitations, operation mode limitation, and online maintenance.

3. The BACnet® gateway shall support system error notification via email. The Data Management Server emailed errors shall include: error occurrence time, error code with description of error, effected equipment address, and current error status.
4. The BACnet® gateway shall support: system configuration, 1-day/daily/weekly scheduling, monitoring of operation status, online maintenance tool, operation superseding of the remote controllers, editable user defined control logic, and malfunction monitoring.
5. Schedule Control Function through web browser. Up to 256 schedule settings, weekly and daily schedule setting, wireless/wired remote controller restriction setting. Digital Outputs can be incorporated into scheduling.
6. The Server shall allow configuration of unoccupied room settings for indoor units configured for unoccupied room control.
7. Convenient digital display allows for easy set up.
8. SD memory card slot for data storage and software updating.
9. Available programmable logic to control the system based on preset monitor points. Specify various system control point inputs (indoor units, outdoor units, DI, DO) and operators (=, >, <, ≤, ≥, ≠) to manipulate system operation (indoor units, outdoor units, DI, DO) based on the status of the specified variables.
10. Optional "weighted averaging" or "representative" setting for heat pump systems to provide optimal auto changeover while in Auto mode.
11. Web Server Function with remote control (with a public IP address) via internet connection. No management software required – PC-independent management through web browser.
12. 10 DI (Digital Input) ports available. Two digital input ports shall be for emergency shutdown with external contact control interface and 8 for other monitoring options (OPEN/CLOSE status). Full indoor unit control with simple contact input (Emergency/Lock). Digital inputs can be incorporated into control logics.
13. 8 DO (Digital Output) terminals for monitoring and control options. 2 state output (Operation/Error) for synchronous control and monitoring. 6 general purpose outputs to control other components (on: 12VDC out; off: no voltage). Digital Outputs can be incorporated into control logics and scheduling.

B. Connection:

1. DC 12V, 3A power provided by AC/DC adapter (input 110-240VAC 50/60Hz, provided with the BACnet® gateway)
2. LAN connection for BMS, web browser, SNET3 software connection

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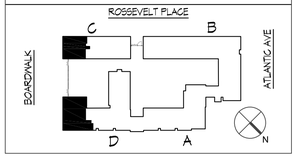
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

MECHANICAL SPECIFICATIONS

SHEET: 24 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-7		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

3. Communication connection: ON/OFF Controller(s) (MCM-A202DN)

4. 16 AWG X 2 shielded cable between SAMSUNG equipment and controls is necessary for proper operation

5. Maximum number of RS485 connections to 1 BACnet® gateway:

   (a) 75 ON/OFF Controllers (MCM-A202DN)

   (b) 80 DVM S Series Systems (AM****X****2AA) connected direct (5 ports, 16 systems per port)

   (c) Maximum 128 indoor units (air handler and/or SAMSUNG ERV)

6. *Upper level device connections:* S-NET 3, BMS system (BACnet® IP), web client

7. MIM-B17BUN shall provide functions to monitor and control status of SAMSUNG DVM S Series systems (AM****X****2AA).

8. The Data Management Server shall support provide functions to monitor and control status of SAMSUNG DVM Plus II, Samsung DVM Plus III, Mini DVM, Free Joint Multi (MH***FXCA*A), and CAC (CH070/105/140CAV, DH105/140CAV, single zone systems) with installation of communication converter interface module per system (MIM-N01).

9. The Data Management Server shall support provide functions to monitor and control status of SAMSUNG CAC AC0***N**C*/AA (single zone systems) without installation of additional interface modules.

C. Dimensions:

1. The BACnet® gateway shall be approximately 9.4" x 10" x 2.6" in size with stainless steel front and LCD displays.

D. Control details:

VRF BACnet® Gateway 2.5			
Item	*Description*	*Operation*	*Display*
ON/OFF	Run and stop operation for a single group	Each Group	Each Group
Operation Mode	Switches between Auto/Cool/Dry/ /Fan/Heat	Each Group	Each Group
Temperature Setting	1. Sets the temperature for a single group. Range of temperature setting a. Auto/Cool/Dry: 65°F-86°F b. Heat: 61°F-86°F 2. Set discharge air temperature for Applicable Samsung duct units that have been configured for discharge air temperature control. Range of temperature setting: a. Cool/Dry mode: 46°F - 64°F b. Heat mode: 64°F - 86°F	Each Group	Each Group
Fan Speed Setting	Models with 3 air flow speed settings: High /Mid/Low	Each Group	Each Group

VRF BACnet® Gateway 2.5			
Item	*Description*	*Operation*	*Display*
Air Flow Direction Setting	1. Air flow 2-step direction (Swing/Stop) 2. Direct setting at a specific angle. 3. Air flow operation varies depending on the model.	Each Group	Each Group
Web Server Function	1. Remote control with the public IP address 2. No management software required – PC-independent management	Each Group	Each Group
Accessible level / Dynamic user security Management	1. Wireless/wired remote controller restriction setting 2. Specify the scope of control and monitoring unit on a per-user 3. 3 accessible levels: Admin/Manager/User	Each Group	Each Group
Error	1. When an error is currently occurring in the system(s), the afflicted unit and the error code are displayed 2. Error notification via email	Each Group	Each Group
Schedule Operation	1. Up to 256 schedule settings 2. Weekly and daily schedule setting	Each Group	Each Group
Power Distribution System	1. Power distribution to 256 indoor units. 2. Remote data query in 1-day units 3. File saving in Microsoft Excel format. 4. Power distribution data storage for one year 5. MIM-B16 or MIM-B16N required for power use measurements	Each Group	Each Group
External Contact Interface	1. Full indoor unit control with simple contact input (Emergency/Lock) 2. State output (Operation/Error) for synchronous control 3. 10 digital outputs (2 reserved) / 8 digital inputs (2 reserved)	Each Channel	Each Channel
Smart Central Management	1. Control & monitoring zone edition 2. Wireless/wired remote control restriction 3. Temperature limit setting 4. Operation mode restriction	Each Group	Each Group
User editable control logic	1. User can edit control logic with arithmetic/conditional operators and parameters. 2. Efficient energy saving realization for various operation conditions. 3. EHP/ERV/AHU parameters + AND/OR + Arithmetic equation Function	Each Group	Each Group
Data backup/useful history management	1. Important data is stored in SD memory card (settings, schedules, errors, operation data, energy data, user settings, etc.) 2. Record the operation history and error	Each Group	Each Group

VRF BACnet® Gateway 2.5			
Item	*Description*	*Operation*	*Display*
	history		
Unoccupied Room Control Configuration	1. Specify unoccupied room settings for applicable indoor units a. Mode b. Fan speed c. Set temperature	Each Group	-
DVM Chiller Control	1. Operation ON/OFF 2. Mode: Heat, cool, cool storage, hot water 3. Operation pattern: standard, rotation, efficiency 4. Enable/disable Water Law 5. Enable/disable quiet mode 6. Forced fan mode 7. Demand/maximum current control (50~100% of design current)	Each Group	Each Group

VRF BACnet® Gateway 2.5		
Input Variables (Control)	*Output Variables(Monitor)*	
On/Off control	On/Off state	In/out contact state
Operation mode	Operation mode	Emergency Stop
Temperature setting	Set/Room temperature	Error code
Fan speed/direction	Fan speed/direction	Indoor unit run time
ERV operation mode	ERV operation mode	DO/DI Status
ERV fan speed	ERV fan speed	SPI setting
Filter alarm reset	Filter alarm	DVM Chiller Chilled water temperature
User control restriction	User control restriction	Error status
Operation mode lock	Thermal Off/On	
Set temperature limit	Power distribution	
Emergency stop	Operation mode lock	
Output contact control	Set temperature limit	
DO ON/OFF	Human Sensor (select units)	
Duct unit discharge air temperature set temperature (select units)	Duct unit discharge air temperature (select units)	
DVM Chiller Chilled water temperature	DVM Chiller demand limit setting	
DVM Chiller set temperature	Operation hours	
DVM Chiller demand limit setting	DVM Chiller Water Law	
DVM Chiller Water Law	DVM Chiller set temperature	

VRF BACnet® Gateway 2.5		
Input Variables (Control)	*Output Variables(Monitor)*	
DVM Chiller quiet mode	DVM Chiller quiet mode	

3.5 CENTRAL TOUCHSCREEN SYSTEM CONRTOLLER (MCM-A300N)

A. Function:

1. The central touchscreen controller is only compatible with Samsung DVM S, CAC single zone, and Free Joint Multi (with MIM-N01 adapter) systems.

2. The central touchscreen controller shall provide control and monitoring via 7" touchscreen interface.

3. The central touchscreen controller shall provide Individual/Group control of up to 128 indoor units (16 systems maximum.

4. The central touchscreen controller shall allow control and monitoring of indoor unit: *operation mode, set temperature, room temperature, fan speed, louver position, remote* control restriction, and power.

5. The central touchscreen controller shall 2 X DI (digital input) terminals to allow quick disable of equipment with a 0 volt contact

6. The central touchscreen controller shall have 1 X DO (digital output) that will provide 12V DC output interlocked with indoor unit operation (ON/OFF).

7. The central touchscreen controller shall have an SD card slot for data backup and future firmware updates.

8. The central touchscreen controller shall provide scheduling capability. Scheduling shall control of indoor unit: operation mode, set temperature, fan speed, louver position, remote control restriction, and power.

9. The central touchscreen controller shall have an all ON/OFF button

10. The central touchscreen controller shall allow creation of zones and grouping of indoor units regardless of connected refrigerant system.

11. The central touchscreen controller shall allow grouping of multiple indoor units to display as a single unit on user interface.

12. The central touchscreen controller shall have customizable group and zone icons on main interface to allow easy operation for user.

13. The central touchscreen controller shall allow restriction of ON/OFF, mode, set temperature, fan speed, and remote control use for daily (non-management) touchscreen controller users.

14. The central touchscreen controller shall have menu lock capability allowing restriction of indoor unit control, schedule setting/changing, and touchscreen controller settings by daily (non-management) touchscreen controller users.

15. The central touchscreen controller shall allow screen lock to prevent unwanted changes by unauthorized users.

16. The central touchscreen controller shall have an LED indicator light on front of device to display operation and error status.

B. Connection:

1. The central touchscreen controller shall be powered by 100~240 VAC, 50/60 Hz.

2. The central touchscreen controller can connect to a single DVM S system via 2 X 16 AWG shielded cable on main system communication terminals (F1/F2). Connection on F1/F2 will allow control and monitoring of a single system.

3. The central touchscreen controller can connect to multiple systems via 2 X 16 AWG shielded cable on central control connections (R1/R2). Maximum 16 systems can be daisy chained on this communication line.

4. Multiple touchscreen controllers can be connected to a single central control connection (R1/R2, maximum 16) when used with MIM-D00AN, MIM-D01AUN, MIM-B17N, MIM-B17BUN, MIM-B18N, and MIM-B18BUN.

C. Dimensions:

1. The central touchscreen controller shall be 8" x 6 5/16" x 1 1/2" (WxHxD).

AUTOMATIC TEMPERATURE CONTROLS (ATC)

GENERAL REQUIREMENTS:

A. WORK SHALL INCLUDE THE COMPLETE FURNISHING AND INSTALLATION OF ALL MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AUTOMATIC CONTROL SYSTEM CONSISTING OF DIGITAL AND ELECTRONIC SENSING AND ACTUATION. THE SYSTEM SHALL BE COMPLETE IN ALL RESPECTS INCLUDING ALL LABOR, MATERIALS, EQUIPMENT AND SERVICE AS REQUIRED. ATC CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ATC CONTROL SYSTEMS WITH ALL OTHER TRADES AS REQUIRED.

B. THE ATC CONTRACTOR SHALL PROVIDE ALL REQUIRED THERMOSTATS, TEMPERATURE SENSORS, CONTROL MODULES, CONTROL WIRING, ETC., NECESSARY FOR A COMPLETE CONTROL SYSTEM THAT WILL FULFILL THE INTENT OF THESE SPECIFICATIONS.

C. THE NEW EQUIPMENT CONTROLLERS AND ACCESSORIES SHALL BE DIRECTLY COMPATIBLE WITH THE FACILITY'S EXISTING BUILDING AUTOMATION SYSTEM (BMS) CURRENTLY SERVICED BY TOZOUR AUTOMATION. THE CONTROL SYSTEMS SHALL BE DESIGNED AND INSTALLED BY AN APPROVED, FACTORY TRAINED AND CERTIFIED ATC CONTRACTOR OF AUTOMATIC TEMPERATURE CONTROL SYSTEMS WHO SHALL ALSO PROVIDE STARTUP, OPERATING INSTRUCTIONS AND NECESSARY MAINTENANCE AND REPAIRS TO THE ATC SYSTEM THROUGHOUT THE GUARANTEE PERIOD. ANY ITEMS DETERMINED TO BE DEFECTIVE WITHIN THE GUARANTEE PERIOD SHALL BE REPAIRED OR REPLACE BY THE ATC CONTRACTOR AT NO COST TO THE OWNER.

D. UPON COMPLETION OF THE CONTROL INSTALLATION, ALL EQUIPMENT PROVIDED UNDER THIS SPECIFICATION AND SHALL BE ADJUSTED AND CALIBRATED FOR PROPER OPERATION.

E. THE ATC CONTRACTOR SHALL, UPON COMPLETION OF THE INSTALLATION AND PRIOR TO FINAL ACCEPTANCE, MAKE AVAILABLE TO THE OWNER AN ANNUAL SERVICE AGREEMENT COVERING ALL LABOR AND MATERIAL REQUIRED TO MAINTAIN AND SERVICE THE NEWLY INSTALLED CONTROL SYSTEMS.

F. ALL ELECTRICAL WORK REQUIRED FOR THE OPERATION OF THE CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ATC CONTRACTOR, EXCEPT AS SPECIFICALLY NOTED, AND SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION.

G. ALL INDOOR ELECTRICAL WIRING SHALL BE INSTALLED IN THIN-WALL EMT CONDUIT. ALL OUTDOOR ELECTRICAL WIRING SHALL BE INSTALLED IN SCHEDULE 80 PVC CONDUIT WITH WATERTIGHT FITTINGS OR PVC COAT MC WITH WATERTIGHT FITTINGS.. CONDUIT SIZES SHALL ALL BE A MINIMUM OF 3/4" IN SIZE.

H. ALL ELECTRICAL CONTROL AND SWITCHES SHALL BE SUITABLE FOR 120 VOLTS, 60 HERTZ. UPON COMPLETION OF THE WORK, AND ELECTRICAL CERTIFICATION FROM THE LOCAL AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED.

I. ATC CONTRACTOR SHALL PROVIDE LOW VOLTAGE POWER WIRING TO ALL NEW MECHANICAL EQUIPMENT CONTROLS.

J. THE FOLLOWING ELECTRICAL WORK SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR:

1. POWER WIRING TO ALL MOTORS AND VFD'S.
2. POWER WIRING TO THE PRIMARY AUTOMATIC TEMPERATURE CONTROL PANELS.

K. FURNISH AND INSTALL A COMPLETE CONTROL SYSTEM TO ACCOMPLISH THE FOLLOWING SEQUENCES OF OPERATIONS:

L. ATC CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO INTERFACE NEW UNITS INTO THE FACILITY'S BMS. PROVIDE BOTH MONITORING AND CONTROL BY THE BMS, OF THE UNIT'S OPERATIONS. THE BMS SHALL MONITOR STATUS AND PROVIDE CONTROL OF THE FOLLOWING POINTS:
1. SUPPLY FAN VFD STATUS AND CONTROL.
2. OUTDOOR RELATIVE HUMIDITY (MONITOR ONLY).
3. INDOOR RELATIVE HUMIDITY (MONITOR ONLY).
4. RETURN, RELIEF AND OUTSIDE AIR DAMPER POSITIONS
5. OUTSIDE AIR TEMPERATURE (MONITOR ONLY).
6. RETURN AIR TEMPERATURE (MONITOR ONLY).
7. DISCHARGE AIR TEMPERATURE.
8. COOLING COIL LEAVING AIR TEMPERATURE.
9. HEATING COIL LEAVING AIR TEMPERATURE.

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No.	Date	Description
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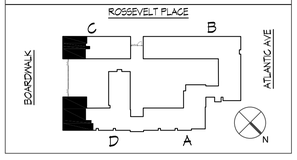
REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

MECHANICAL SPECIFICATIONS
& ATC NOTES

SHEET: 25 OF 49

DRAWN BY: WFH	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: BTR	DRAWING NO. M-8		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

LEGEND

- Plumbing Domestic Cold Water- New
- Plumbing Domestic Cold Water- Existing
- Plumbing Domestic Cold Water- Demo
- Plumbing Domestic Hot Water- New
- Plumbing Sanitary Waste- New
- Plumbing Sanitary Waste- Existing
- Plumbing Sanitary Waste- Demo
- Plumbing Sanitary Vent- New
- Plumbing Sanitary Vent- Existing
- Plumbing Sanitary Vent- Demo
- FCO — FLOOR CLEANOUT
- PIPING DOWN/DROP @ ELBOW
- PIPING DOWN/DROP @ TEE
- PIPING RISE/UP @ ELBOW
- PIPING RISE/UP @ TEE
- P-TRAP
- CAPPED OFF PIPE
- BALL VALVE
- POINT OF DEMOLITION TO EXISTING
- POINT OF CONNECTION TO EXISTING

ABBREVIATIONS

ABV CLG	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
BLW FLR	BELOW FLOOR
BT	BATHTUB
BFP	BACKFLOW PREVENTER
CO	CLEANOUT
CW	COLD WATER
CONT	CONTINUE
CWFU	COLD WATER FIXTURE UNIT
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
DR	DRAIN
EC	ELECTRICAL CONTRACTOR
EXIST	EXISTING
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FM	FORCE MAIN
FNL	FUNNEL
FPC	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
FSEC	FOOD SERVICE CONTRACTOR
G	GAS
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIB
HC	HANDICAPPED ACCESSIBLE
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IW	INDIRECT WASTE
LAV	LAVATORY SINK
MC	MECHANICAL CONTRACTOR
MR	MOP RECEPTOR
MS	MOP SINK
MV	MIXING VALVE
PC	PLUMBING CONTRACTOR
PRV	PRESSURE/REGULATING/REDUCING VALVE
SA	SHOCK ABSORBER
SAN	SANITARY
SH	SHOWER
SK	SINK
S/S	STAINLESS STEEL
T & P	TEMPERATURE & PRESSURE
TBR	TO BE REMOVED
TD	TRENCH DRAIN / TROUGH DRAIN
TW	TEMPERED WATER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN OUT

GENERAL SPECIFICATIONS

1. ALL PLUMBING SHALL COMPLY WITH THE 2018 EDITION THE NATIONAL STANDARD PLUMBING CODE AS ADOPTED BY THE STATE OF NEW JERSEY.
2. CONTRACTOR SHALL PROVIDE AND PAY ALL FEES AND PERMITS.
3. THE DRAWINGS ARE INTENDED TO SHOW APPROXIMATE AND RELATIVE LOCATIONS OF MATERIALS AND EQUIPMENT. DRAWINGS SHALL NOT BE SCALED TO DETERMINE EXACT POSITIONS AND CLEARANCES. BECAUSE OF DIAGRAMMATIC LAYOUT AND SMALL SCALE OF DRAWINGS, NOT ALL RISES, DROPS, OFFSETS, VENTS, TRAPS AND RELATED SPECIALTIES ARE INDICATED. PROVIDE ALL SUCH PIPING, FITTINGS, VALVES AND SPECIALTIES REQUIRED IN SUCH CASES TO INSURE A COMPLETE AND PROPERLY OPERATING INSTALLATION IN ACCORDANCE WITH CODES AND WITHOUT EXTRA COST TO OWNER.
4. WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN PARTICULAR TRADE INVOLVED, THAT IS, PLUMBING WORK SHALL BE PERFORMED BY PLUMBERS, ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICIANS, MECHANICAL WORKED PERFORMED BY STEAM FITTERS AND SHEET METAL MECHANICS.
5. ALL WORK SHALL BE INSPECTED, TESTED AND APPROVED BY THE PROPER AUTHORITIES HAVING JURISDICTION. CERTIFIED COPIES OF THESE APPROVALS SHALL BE DELIVERED TO THE OWNER BEFORE FINAL PAYMENT.
6. SLEEVES SHALL BE INSTALLED THROUGH FLOORS AND FIRE RATED WALLS. SLEEVES SHALL BE 2 PIPE SIZES LARGER THAN PIPE PASSING THRU AND SHALL BE SCHEDULE 40 STEEL PIPE. PROVIDE FIRE PROOF SEAL BETWEEN PIPES AND SLEEVES WHEN PASSING THRU FIRE RATED WALLS/FLOORS. SLEEVES PASSING THRU FLOORS SHALL BE EXTENDED 4" ABOVE FLOOR.
7. ESCUTCHEON PLATES SHALL BE PROVIDED ON ALL PIPE WHICH PASS THROUGH WALL PARTITIONS, FLOORS OR CEILINGS. PLATES SHALL BE ONE PIECE, CHROME FINISHED BRONZE.
8. COREDRILLING SHALL BE ACCOMPLISHED BY MECHANICAL MEANS IN A MANNER THAT WILL NOT AFFECT THE INTEGRITY OF THE STRUCTURE. AFTER INSTALLATION OF PIPING THRU THE COREDRILL, PACK THE ANNULAR SPACE WITH OAKUM OR FIBROUS GLASS, LEAVING A MINIMUM OF TWO INCHES AT EACH END TO BE FILLED AND FINISHED WITH A "FIRE BARRIER" MATERIAL EQUAL TO 3M "PENETRATION SEALING SYSTEMS" SUCH AS "CP-25 CAULK", "303 PUTTY" OR "FS-195 WRAP". APPLICATION OF "FIRE BARRIER" MATERIAL SHALL BE IN ACORDANCE WITH MANUFACTURER'S STANDARDS AND APPLICABLE CODES.
9. PROVIDE COPIES OF ALL TEST REPORTS TO OWNER.
10. COORDINATE LOCATION OF ALL ABOVE CEILING PIPING WITH MECHANICAL, ELECTRICAL & FIRE PROTECTION CONTRACTORS PRIOR TO INSTALLATION.
11. IF CONFLICT ARISES BETWEEN ITEMS SHOWN ON DRAWINGS AND ITEMS SPECIFIED, THE MOST STRINGENT ITEM SHALL BE USED.
12. THE INSTALLATION OF ALL INSULATION SHALL BE PERFORMED BY AN EXPERIENCED CRAFTSMAN IN A NEAT WORKMAN-LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED.
13. ALL NEW PLUMBING FIXTURES SHALL MEET THE APPROPRIATE "ANSI" STANDARDS LISTED IN THE PLUMBING SUBCODE. USE OF SUBSTANDARD AND NON-CONFORMING FOREIGN MADE PRODUCTS IS PROHIBITED.
14. ALL PLUMBING SYSTEMS AND VALVES SHALL BE LABELED FOR PROPER IDENTIFICATION. NAMEPLATES, METAL TAGS, PLASTIC PIPE MARKERS IN ACCORDANCE WITH BRIMAR IDENTIFICATION & SAFETY PRODUCTS, BRIMAR INDUSTRIES, INC.
15. INSULATE EXPOSED WASTE & WATER PIPING BELOW HANDICAPPED LAVATORIES WITH TRUBRO LAV GUARD 2 FORM FIT INSULATING COVERS.
16. HANDICAPPED FIXTURE HEIGHTS SHALL BE IN ACCORDANCE WITH ICC/ANSI A-117.1.
17. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH CHROME PLATED SHUT OFF VALVES (ANGLE STOPS), CHROME PLATED SUPPLIES AND P-TRAPS.
18. ALL WASTE PIPING LOCATED IN ELECTRICAL ROOMS SHALL BE PANNED. DRAIN PAN SHALL BE MINIMUM 16 GAUGE SHEET METAL WITH 1 1/2" HIGH FORMED SIDES. PROVIDE 1 1/2" INDIRECT WASTE DRAIN FORM BOTTOM OF PAN TO NEAREST WASTE RECEPTACLE.
19. PROVIDE FIRESTOPPING FOR ALL PIPING PENETRATIONS THROUGH WALLS AND FLOORS. ALL FIRESTOPPING SHALL MEET OR EXCEED THE UL RATINGS FOR WALLS AND FLOORS AS NOTED ON ARCHITECTURAL DRAWINGS. FIRESTOPPING SHALL BE BY USE OF CAST IN PLACE OR POST INSTALLED DEVICES, CAULKING MATERIALS OR FOAMS. PENETRATIONS FOR COMBUSTIBLE PIPING SHALL BE PROVIDED WITH SEALANTS, COLLARS OR WRAP DEVICES DESIGNED TO EXPAND WHEN EXPOSED TO FIRE. CONTRACTOR SHALL SUBMIT MANUFACTURER'S SPECIFICATIONS AND TECHINCAL DATA FOR EACH TYPE OF PENETRATION REQUIRED WHICH SHALL INCLUDE COMPOSITION, LIMITATIONS, APPROVED UL LISTINGS AND INSTALLATION INSTRUCTIONS TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION OF THESE DEVICES. INSTALLERS OF THESE DEVICES SHALL BE CERTIFIED, LICENSED OR OTHERWISE QUALIFIED BY THE MANUFACTURER AS HAVING BEEN PROVIDED THE NECESSARY TRAINING TO INSTALL PRODUCT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

CONTINUITY OF EXISTING SYSTEMS

1. ALL WORK SHALL BE PERFORMED AT SUCH TIME AND IN SUCH MANNER AS WILL LEAST INTERFERE WITH MAINTENANCE AND OPERATION OF OWNER'S ACTIVITIES. PROVISIONS SHALL BE MADE TO PERMIT OWNER'S USE OF ALL THE BUILDING AND OF EXISTING SYSTEMS AT ALL TIMES. PROVIDE TEMPORARY FACILITIES TO SECURE THESE CONDITIONS. REMOVE TEMPORARY FACILITIES WHEN PERMANENT WORK HAS BEEN PLACED INTO SERVICE.
2. FULLY COORDINATE WITH ARCHITECT, OWNER AND ALL OTHER TRADES, ALL WORK INVOLVING SHUT-DOWN AND INTERRUPTION OF EXISTING SYSTEMS AND SERVICES.
3. SHUT-DOWN OF EXISTING SERVICES WHERE REQUIRED TO INSTALL NEW SYSTEMS OR ALTER EXISTING, SHALL BE PERFORMED DURING HOURS THAT THE BUILDING IS NOT BEING USED BY OWNER. ALL COSTS FOR PERFORMING THIS WORK SHALL BE BORNE BY THE CONTRACTOR AND WITHOUT "EXTRA" COST TO THE OWNER.
4. EXISTING SYSTEMS AND SERVICES THAT ARE TEMPORARILY DISCONNECTED, BUT ARE TO REMAIN IN USE, SHALL BE PERMANENTLY RECONNECTED AND RETURNED TO PROPER OPERATION.
5. FULLY COORDINATE WITH ARCHITECT, OWNER AND OTHER TRADES TO INSURE COMPLETE CONTINUITY OF ALL SYSTEMS AND SERVICES.

SUBMITTAL NOTE:

1. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL PIPING, VALVES, EQUIPMENT, ETC IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. NO WORK SHALL BEGIN UNTIL APPROVAL HAS BEEN OBTAINED FROM ARCHITECT/ENGINEER.
2. CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS 1/4" SCALE MINIMUM FOR REVIEW AND APPROVAL AS STATED IN NOTE 1 ABOVE.

"AS BUILT" CONSTRUCTION DRAWINGS NOTES:

1. A COMPLETE SET OF "AS-BUILT" DRAWINGS, (1) SET ON DISC IN PDF FORMAT AND (1) SET OF ELECTRONIC FILES PRODUCED IN AUTOCAD FORMAT SHALL BE FURNISHED TO THE OWNER AND ENGINEER UPON PROJECT COMPLETION.

PLUMBING DEMOLITION NOTES

1. IT IS THE INTENT THAT ALL EXISTING PIPING, DUCTWORK, FIXTURES AND OTHER EQUIPMENT AND MATERIALS THAT INTERFERE WITH THE ALTERED EXISTING BUILDING ARRANGEMENTS AND NEW SYSTEMS BE REMOVED, RELOCATED, REROUTED OR ABANDONED. THE DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT ARE TO BE REMOVED, RELOCATED, REROUTED OR ABANDONED BY EACH TRADE. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS. HOWEVER, THEIR REMOVAL, RELOCATIONS, REROUTING OR ABANDONMENT SHALL ALSO BE INCLUDED IN THIS CONTRACT AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
2. EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME ABANDONED DUE TO NEW WORK SHALL BE REMOVED BACK TO ACTIVE RISER AND MAIN AND PROPERLY PLUGGED OR CAPPED BEHIND FINISHED SURFACES.
3. ALL EXISTING PIPING TO BE DEMOLISHED MAY NOT BE SHOWN. CONTRACTOR SHALL DURING PRE-BID SITE VISIT DETERMINE EXTENT OF DEMOLITION AND INCLUDE COST OF THIS WORK IN BID. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS. ALL UNKNOWN BELOW SLAB PIPING ENCOUNTERED DURING INSTALLATION OF NEW WORK SHALL BE REMOVED AND CAPPED OFF AT ACTIVE MAIN OR BRANCH. ALLOWANCE SHALL BE MADE FOR THESE ITEMS IN BID PRICE.
4. EXISTING EQUIPMENT AND MATERIALS THAT ARE TO REMAIN, BUT BECOME EXPOSED DUE TO NEW WORK, SHALL BE RELOCATED AND RECONNECTED AS DIRECTED BY ARCHITECT.
5. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT AND MATERIALS SHALL BE REVIEWED WITH ARCHITECT AND OWNER BEFORE BEGINNING WORK.
6. REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER SHALL BECOME PROPERTY OF CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM SITE. EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY CONTRACTOR TO AN ON-SITE STORAGE LOCATION DESIGNATED BY OWNER.
7. THE CONTRACTOR MUST SURVEY AND VERIFY LOCATIONS AND PHYSICAL SIZES OF ALL EXISTING ITEMS AND DETERMINE WHETHER RELOCATION OR REROUTING WILL BE REQUIRED. IF RELOCATION OR REROUTING IS REQUIRED, INCLUDING THAT OF ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS, THE CONTRACTOR SHALL INCLUDE ALL NECESSARY WORK AS PART OF HIS CONTRACT AND IT SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
8. IN THE REMOVAL OF ANY PART OF A DRAINAGE OR WATER SYSTEM, DEAD ENDS SHALL BE AVOIDED EXCEPT WHERE NECESSARY TO EXTEND TO A CLEANOUT SO AS TO BE ACCESSIBLE.

DOMESTIC WATER SPECIFICATIONS

1. DOMESTIC WATER HOT & COLD WATER DISTRIBUTION PIPING SHALL BE ASTM B88 TYPE "L" SEAMLESS COPPER TUBE WITH SOLDER JOINT FITTINGS USING 95-5 SOLDER PER ASTM B32. CONTRACTOR MAY SUBSTITUTE PROPRESS FITINGS AND JOINING METHODS. ALL HOT & COLD WATER DISTRIBUTION PIPING SHALL BE WATER RATED FOR NOT LESS THAN 100PSI @ 180°F. ALL PIPING INSTALLED IN PLENUM SPACES SHALL BE ASTM B88 TYPE "L" SEAMLESS COPPER TUBE WITH SOLDER JOINT FITTINGS USING 95-5 SOLDER PER ASTM B32 OR HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPMENT RATING OF 50 OR LESS. PIPING MATERIALS FOR USE ON DOMESTIC WATER SYSTEMS INCLUDING FIXTURES & VALVES SHALL NOT CONTAIN MORE THAN 0.2 PERCENT LEAD.
2. PRIOR TO DISINFECTION, POTABLE WATER PIPING SHALL BE FLUSHED WITH WATER UNTIL NO DIRTY WATER APPEARS AT THE POINTS OF OUTLETS.
3. POTABLE WATER PIPING SHALL BE DISINFECTED PRIOR TO USE PER NATIONAL STANDARD PLUMBING CODE. THE PIPING SHALL BE FILLED WITH A WATER CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE AND SHALL BE VALVED OFF FOR 24 HOURS OR FILLED WITH A WATER CHLORINE SOLUTION CONTAINING AT LEAST 200 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR AT LEAST 3 HOURS. FOLLOWING THE ALLOWED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH POTABLE WATER UNTIL NO CHLORINE REMAINS IN THE SYSTEM. PROVIDE RESULTS OF DISINFECTION TO OWNER WHEN COMPLETE.
4. DOMESTIC WATER PIPE SHALL CONSIST OF A HYDROSTATIC PRESSURE TEST OF 25 PSIG ABOVE THE WORKING PRESSURE UNDER WHICH IT IS OPERATED FOR NOT LESS THAN 60 MINUTES.
5. IF LEAKS OCCUR DURING TESTING, REPAIRS SHALL BE MADE AND SYSTEM RETESTED UNTIL NO EVIDENCE OF LEAKS EXIST FOR THE DURATION OF THE TEST.
6. DOMESTIC WATER PIPE SHALL BE INSULATED WITH 1" THICK FIBERGLASS PREFORMED INSULATION WITH VAPOR JACKET AND SELF SEALING TAPE, EQUAL TO OWENS-CORNING ASJ/SSL-2. PIPING IN EXTERIOR WALLS SHALL HAVE 2"THICK INSULATION. DOMESTIC WATER PIPE MAY BE INSULATED WITH AP/ARMAFLEX SS (SELFSEAL) FLEXIBLE ELASTOMERIC THERMAL INSULATION, 1/2" THICKNESS, OR APPROVED EQUAL. PIPING IN EXTERIOR WALLS SHALL HAVE 1" THICK INSULATION.
7. BALL VALVES SHALL BE EQUAL TO APOLLO LEAD FREE SERIES 77CLF-100, 77CLF-200, 70LF-100 OR 70LF-200 RATED FOR 150 PSIG W.O.G.
8. SHOCK ABSORBER SHALL BE JR SMITH FIGURE 5005 THRU 5030 AS APPLICABLE, & CERTIFIED TO BE TESTED IN ACCORDANCE WITH STANDARD PDI WH-201& ASSE 1010.
9. CHECK VALVES SHALL BE EQUAL TO APOLLO LEAD FREE SERIES 161SLF PER MSS SP-80. .
10. BACKFLOW PREVENTER FOR FOOD SERVICE EQUIPMENT SHALL BE LEAD FREE APOLLO VALVE MODEL DUCLF4N, DUAL CHECK, AND SHALL BE LISTED UNDER ASSE 1024 STANDARDS. CARBONATED BEVERAGE BACKFLOW PREVENTERS SHALL BE LEAD FREE APOLLO VALVE MODEL 4C-100 AND SHALL BE LISTED UNDER ASSE 1022.

SANITARY WASTE PIPING SPECIFICATIONS

1. SANITARY WASTE AND VENT PIPE & FITTINGS SHALL BE STANDARD WEIGHT HUBLESS CAST IRON ASTM A-888, WITH ALL STAINLESS STEEL HUBLESS COUPLING WITH NEOPRENE GASKETS IN ACCORDANCE WITH ASTM C-564 & CISPI-310, ALL COUPLINGS TO BE HEAVY DUTY EQUAL TO HUSKY SD 4000 WITH SEALING SLEEVE CONFORMING TO ASTM C-564. ALL CAST IRON SOIL PIPE, FITTINGS COUPLINGS AND GASKETS SHALL BE MARKED W/THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, IDENTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF CISPI 310, AND BE LISTED BY NSF INTERNATIONAL AND THE COUNTRY OF ORIGIN & IDENTIFICATION OF THE ORIGINAL MANUFACTURER.
2. ALL WASTE & VENT PIPE SHALL BE AIR TESTED TO NOT LESS THAN 5 PSIG PRESSURE IN THE SYSTEM. PIPING SYSTEM SHALL SUSTAIN A CONSTANT PRESSURE FOR NOT LESS THAN 15 MINUTES. IF LEAKS OCCUR DURING SYSTEM TESTING, REPAIRS SHALL BE MADE AND SYSTEM RETESTED UNTIL NO EVIDENCE OF LEAKS EXIST FOR THE DURATION OF THE TEST. DRAIN & VENT PIPING LOCATED ABOVE AREAS WHERE FOOD IS STORED, PREPARED OR DISPLAYED SHALL BE AIR TESTED TO NOT LESS THAN 10 PSIG.
3. CLEANOUTS SHALL BE TYLER PIPE CLEANOUT BODY STANDARD FERRULE 2-11 WITH TYPE "B" BRASS PLUG FOR ABOVE FLOOR. FLOOR CLEANOUTS SHALL BE JR SMITH SERIES 4020 W/ROUND ADJUSTABLE BRONZE TOP. WALL CLEANOUTS SHALL BE JR SMITH FIGURE 4402.
4. HORIZONTAL DRAIN PIPING SHALL BE INSTALLED AT UNIFORM SLOPE NOT LESS THAN 1/4" PER FOOT FOR 2" AND SMALLER AND NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER. INSTALL STORM DRAINAGE AS INDICATED ON PLANS.
5. ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS.
6. INDIRECT WASTE PIPING SHALL BE COPPER TUBE ASTM B306 WITH SOLDER JOINT DWV FITTINGS IN ACCORDANCE WITH ASME B16.23.
7. ALL WASTE PIPING LOCATED INSIDE EXTERIOR WALLS SHALL BE INSULATED WITH 2"THICK FIBERGLASS PREFORMED INSULATION WITH VAPOR JACKET AND SELF- SEALING TAPE, EQUAL TO OWENS-CORNING ASJ/SSL-2.
8. IN THE REMOVAL OF ANY PART OF A DRAINAGE SYSTEM, DEAD ENDS SHALL BE AVOIDED EXCEPT WHERE NECESSARY TO EXTEND TO A CLEANOUT SO AS TO BE ACCESSIBLE.

HANGERS & SUPPORTS

1. HANGERS AND ANCHORS SHALL BE SECURELY ATTACHED TO BUILDING CONSTRUCTION AT SUFFICIENTLY CLOSE INTERVALS TO SUPPORT PIPING AND ITS CONTENTS.

A. VERTICAL PIPING FOR CAST IRON SHALL BE SUPPORTED AT BASE AND AT EACH STORY HEIGHT.

B. VERTICAL PIPING FOR COPPER SHALL BE SUPPORTED AT EACH STORY HEIGHT BUT NOT MORE THAN 10 FOOT INTERVALS.

C. HORIZONTAL PIPING FOR CAST IRON SHALL BE SUPPORTED WITH MINIMUM ONE HANGER LOCATED WITHIN 18" OF EACH JOINT UP TO 10 FOOT MAXIMUM PIPE LENGTH, AT CHANGES IN DIRECTION, AND AT EACH BRANCH CONNECTION. WHERE PIPE IS SUSPENDED BY NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT AT A MINIMUM 25 FOOT MAXIMUM SPACING. LATERAL SUPPORT SHALL CONSIST OF EITHER A SWAY BRACE OR EITHER A CHANGE IN DIRECTION OR A BRANCH CONNECTION THAT PROVIDES THE REQUIRED LATERAL SUPPORT.

D. HORIZONTAL PIPING FOR COPPER SHALL BE SUPPORTED AT 6 FOOT INTERVALS FOR PIPE SIZES 1 1/4" AND SMALLER AND AT 10 FOOT INTERVALS FOR PIPE SIZES 1 1/2" AND LARGER. WHERE PIPE IS SUSPENDED BY NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT.

2. ALL SUPPORTS IN CONTACT WITH COPPER PIPING SHALL BE PLASTIC COATED.
3. INSTALL METAL SHIELDS ON HANGERS SUPPORTING INSULATED PIPE.
4. PROVIDE HANGERS THAT ARE U.L. LISTED AND LABELED.
5. ALL DOMESTIC WATER AND SANITARY WASTE PIPE SUPPORTS SHALL BE IN ACCORDANCE WITH NSPC CHAPTER 8, MSS SP-58, 69 & 89.
6. PLUMBING SYSTEMS SHALL BE INSTALLED SO AS TO PREVENT STRAINS & STRESSES WHICH WILL EXCEED STRUCTURAL STRENGTH OF PIPE. PROVISIONS SHALL BE MADE FOR EXPANSION & CONTRACTION OF PIPING.
7. HANGERS, ANCHORS AND SUPPORTS SHALL BE OF METAL. OTHER MATERIAL OF SUFFICIENT STRENGTH TO SUPPORT THE PIPING AND ITS CONTENTS IS ACCEPTABLE. ALL SUPPORTS AND FASTENERS LOCATED OUTSIDE OR IN CORROSIVE AREAS SHALL BE GALVANIZED.
8. MINIMUM ROD DIAMETER FOR SINGLE RIGID SUPPORTS SHALL BE AS FOLLOWS:
   A. FOR 1/4" THRU 2" PIPE: 3/8"DIAMETER
   B. FOR 2 1/2" AND 3" PIPE: 1/2"DIAMETER
   C. FOR 4" AND 5" PIPE: 5/8"DIAMETER
   D. RODS MAY BE REDUCED ONE SIZE FOR DOUBLE ROD HANGERS(3/8"DIA MIN)
8. FOR ABOVE GROUND WASTE PIPING OVER 4" IN DIAMETER USING NO-HUB COUPLINGS, COUPLINGS SHALL BE RESTRAINED WITH BRACES, BLOCKS, RODDING OR OTHER SUITABLE METHODS AS RECOMMENDED BY THE COUPLING MANUFACTURER OR ENGINEER.

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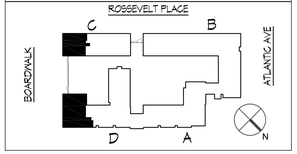


PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PLUMBING NOTES, LEGEND, SYMBOLS & ABBREVIATIONS

SHEET: 26 of 49

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: JMS	DRAWING NO. P-0.1	REVISION	
DATE: 05/22/2020			
PROJECT NO.:			

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	BASIS OF DESIGN MANUFACTURER AND MODEL	APPLICABLE STANDARD	MATERIAL	MOUNTING AND OUTLET	RIM HEIGHT	FAUCETS, FITTINGS AND ACCESSORIES	BASIS
WC-1	WALL-MOUNTED ELONGATED WATER CLOSET	SLOAN MODEL ST-2459-A	ASME A112.19.2M ADA	VITREOUS CHINA	WALL-MOUNTED BACK-OUTLET	ADA 17"-19"	1. FLUSH VALVE: SLOAN 8111-1.28 GPF, SENSOR OPERATED, BATTERY POWERED 2. SEATS: CENTOCO #550STSCC 3. SUPPLY: CHROME PLATED BRASS, 1-1/2" TOP INLET SPUD. 4. CARRIER: J.R. SMITH (SINGLE OR BACK-TO-BACK)	DESIGN CONSUMPTION: 1.28 GPF PRESSURE RANGE 15-80 PSI. COLOR: WHITE BOLT CAPS
LAV-1	LAVATORY	SLOAN MODEL SS-3103	ASME A112.19.2M FAUCET ASME A11218.1M	VITREOUS CHINA	WALL MOUNTED ADA	32" ADA 34"	1. FAUCET: SLOAN EAF-150-ISM, SENSOR OPERATED, BATTERY POWERED 2. DRAIN: GRID TYPE, POLISHED CHROME, VANDAL RESISTANT. 3. TRAP TYPE: P-TRAP CHROME PLATED CAST BRASS BODY WITH CLEANOUT 4. SUPPLY KITS: BRAIDED S/S FLEX 5. CARRIER: J.R. SMITH WALL MOUNTED CONCEALED ARM SUPPORT	FRONT OVERFLOW 0.5 GPM FLOW RATE COLOR: WHITE
EWC-1	ELECTRIC WATER COOLER	ELKAY MODEL LZSTL8WSLK	ASME A112.19.3	-	WALL MOUNTED - BI LEVEL	36-13/16" ADA 31-5/16"	1. PROVIDE COMPATIBLE SUPPLY, TRAP AND SUPPORTS.	8 GPH
MR-1	MOP RECEPTOR	FIAT PRODUCT MODEL TSB 300	–	PRECAST TERRAZZO	FLOOR MOUNTED	–	1. FAUCET: "T&S BRASS" B-0662 WALL SUPPORTED CEILING MOUNTED, CHROME PLATED, W/ VACUUM BREAKER, KEY STOPS. SPOUT W/PAIL HOOK, WALL BRACE AND 3/4" HOSE THREAD 2. DRAIN: STAINLESS STEEL GRID-TYPE, POLISHED CHROME, VANDAL RESISTANT 3. RIM GUARD: STAINLESS STEEL 4. MOP HANGER NO: 889-CC-24" 5. HOSE & HOSE BRACKET NO: 832-AA-30" LONG 6. STRAINER NO: 1453-BB 16 GAUGE #302 STAINLESS STEEL ATTACHED WITH FLAT HEAD SLOTTED MACHINE SCREWS 7. SEALANT: SILICONE #833-AA 8. SS WALL GUARD MSG 2424	SPRAY OUTLET W/ 2.5 GPM FLOW RATE

DOMESTIC HOT WATER EXPANSION TANK SCHEDULE

DET 1

SYMBOL	LOCATION	HORIZONTAL OR VERTICAL	SERVICE	TYPE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	SIZE DIA x H	CONNECTION SIZE		OPER WEIGHT (LBS)	BASIS OF DESIGN	
								FILL	SYSTEM		MANUFATCURER	MODEL NUMBER
DET-1	UTILITY CLOSET	VERTICAL	DOM HOT WATER	BLADDER	2	--	8"x13"	--	3/4"	22	AMTROL	ST-5

NOTES:
1. NSF CERTIFIED FOR POTABLE SYSTEMS
2. 7 YEAR WARRANTY

ELECTRIC WATER HEATER SCHEDULE

EWH 1

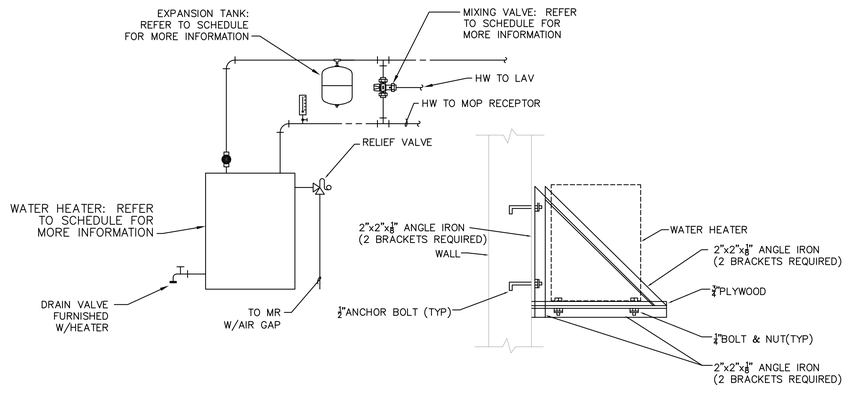
SYMBOL	CAPACITY (GALLONS)	WATER ENT (°F)	WATER LVG (°F)	RECOVERY (80°F RISE) (GAL/HR)	ELEMENT (WATTS)	ELEMENT CONTROL	V/PH/HZ	FLA	OPER WEIGHT (LBS)	BASIS
EWH-1	10	40	140	8	2000	NON-SIMULTANEOUS	208/1/60	9.6	137	LOCHINVAR MODEL #EJJ010ES (18.25"H x 18"DIA)

DOMESTIC WATER MIXING VALVE SCHEDULE

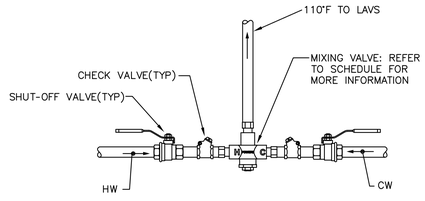
MV 1

SYMBOL	SERVICE	LOCATION	TYPE	GPM	PD	MAX TEMP	MIN FLOW	FLANGE SIZE		BASIS OF DESIGN	
								INLET	OUTLET	MANUFACTURER	MODEL NUMBER
MV-1	DOM. HOT WATER SUPPLY	JANITORS CLOSET	THERMOSTATIC	6	10	110	.5	3/4"	3/4"	WATTS	LFMMVM1

NOTES:
1. NSF CERTIFIED FOR POTABLE USE.



1 P-0.2 DETAIL – WALL MOUNTED ELECTRIC WATER HEATER
SCALE: NTS



2 P-0.2 DETAIL – MIXING VALVE
SCALE: NTS

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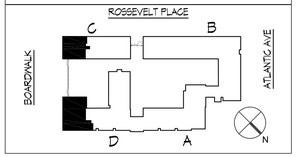

PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PLUMBING SCHEDULES & DETAILS

SHEET: 27 OF 49

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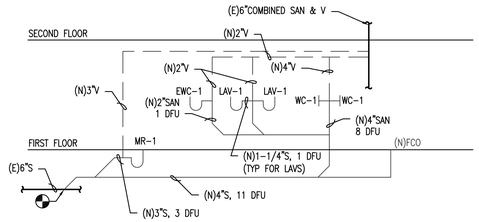
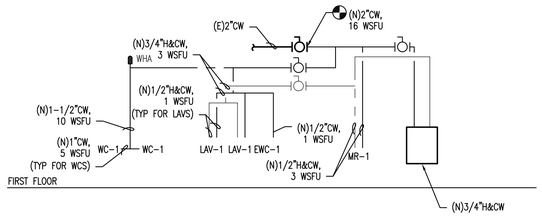
DATE: 05/22/2020			
PROJECT NO.:			



1 P-0.3 RISER – SANITARY – ALTERNATE BID
SCALE: NTS



2 P-0.3 RISER – DOMESTIC WATER – ALTERNATE BID
SCALE: NTS

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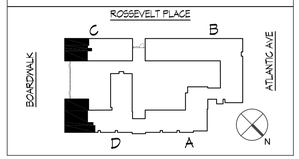

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PROPOSED WHITEBOX FITOUT

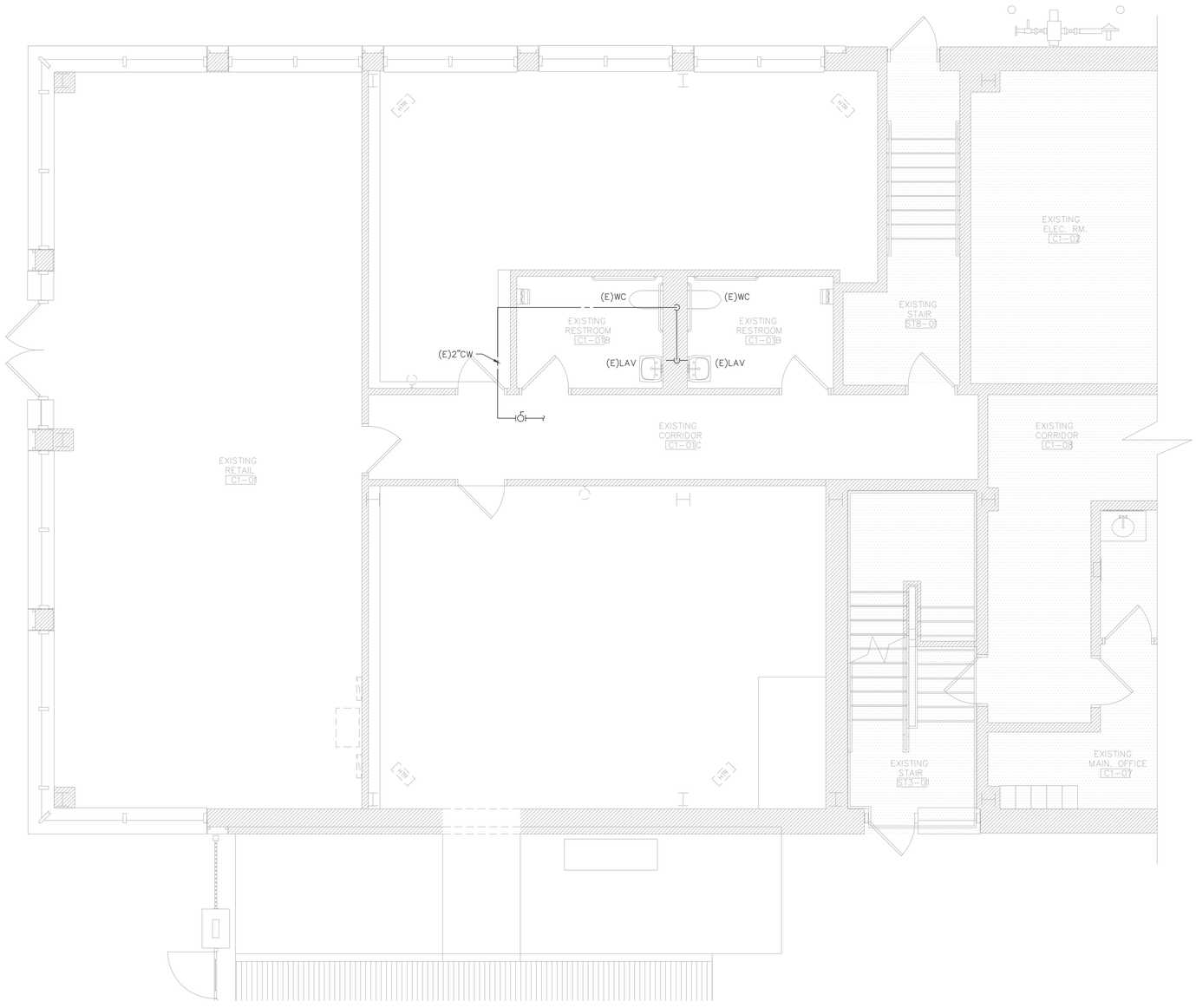
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PLUMBING RISER DIAGRAMS

SHEET: 28 OF 45

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: JMS	DRAWING NO. P-0.3	REVISION
DATE: 05/22/2020		
PROJECT NO.:		



1 / PD-1 PARTIAL PLUMBING DEMOLITION PLAN – BLDG C

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

0' 1' 2' 4' 8'

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

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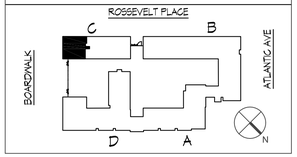


PROJECT:

PROPOSED WHITEBOX FITOUT

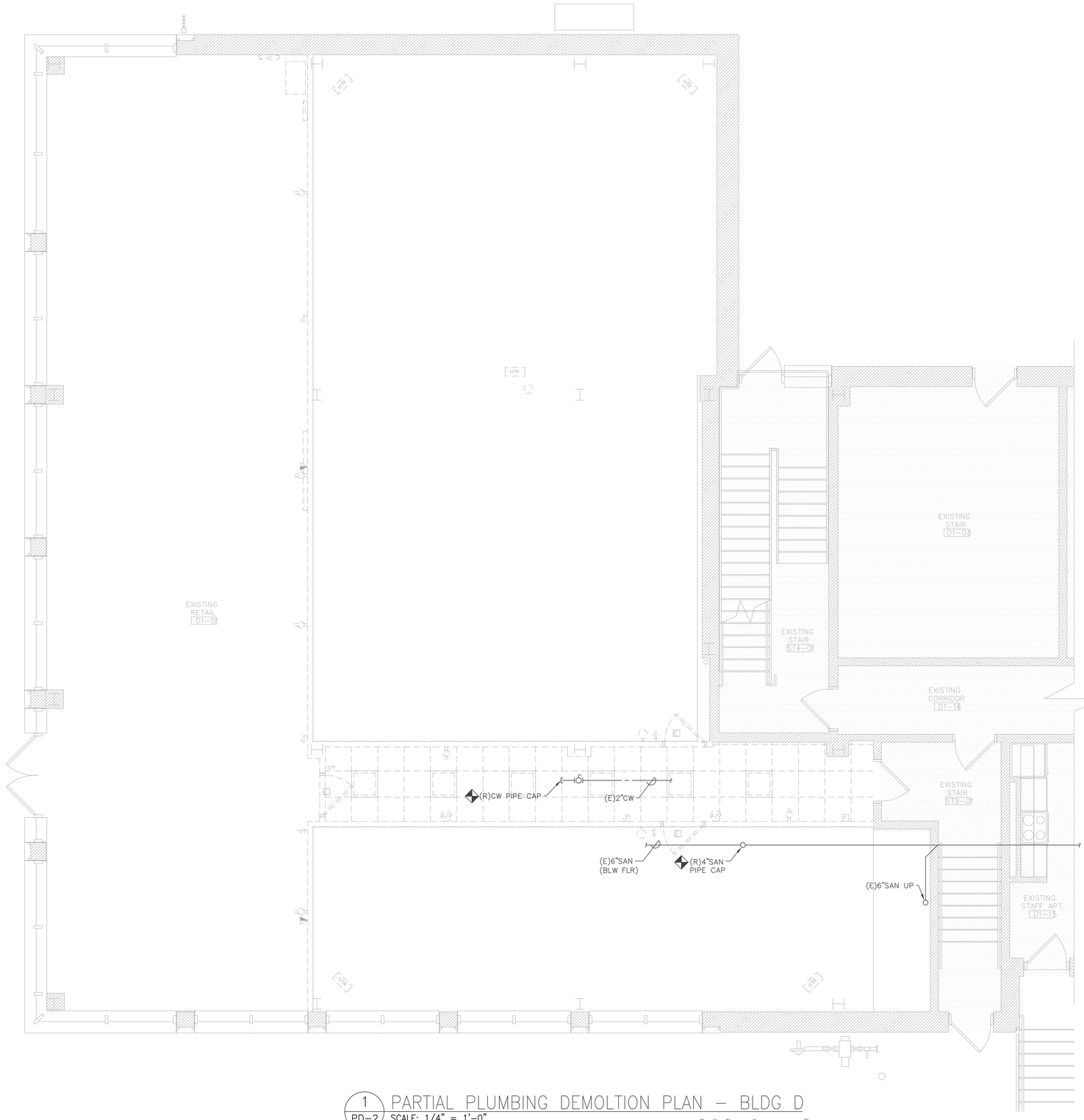
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL PLUMBING
DEMOLITION PLAN -
BUILDING C - BASE BID

SHEET: 29 OF 49

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: JMS	DRAWING NO. PD-1	REVISION
DATE: 05/22/2020		
PROJECT NO.:		



1 PD-2 PARTIAL PLUMBING DEMOLTION PLAN – BLDG D

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

0' 1' 2' 4' 8'

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

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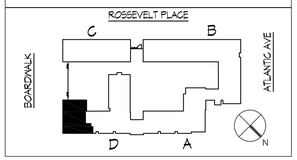

PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL PLUMBING
DEMOLITION PLAN -
BUILDING D - ALTERNATE BID

SHEET: 30 OF 49

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: JMS	DRAWING NO. PD-2	REVISION	
DATE: 05/22/2020			
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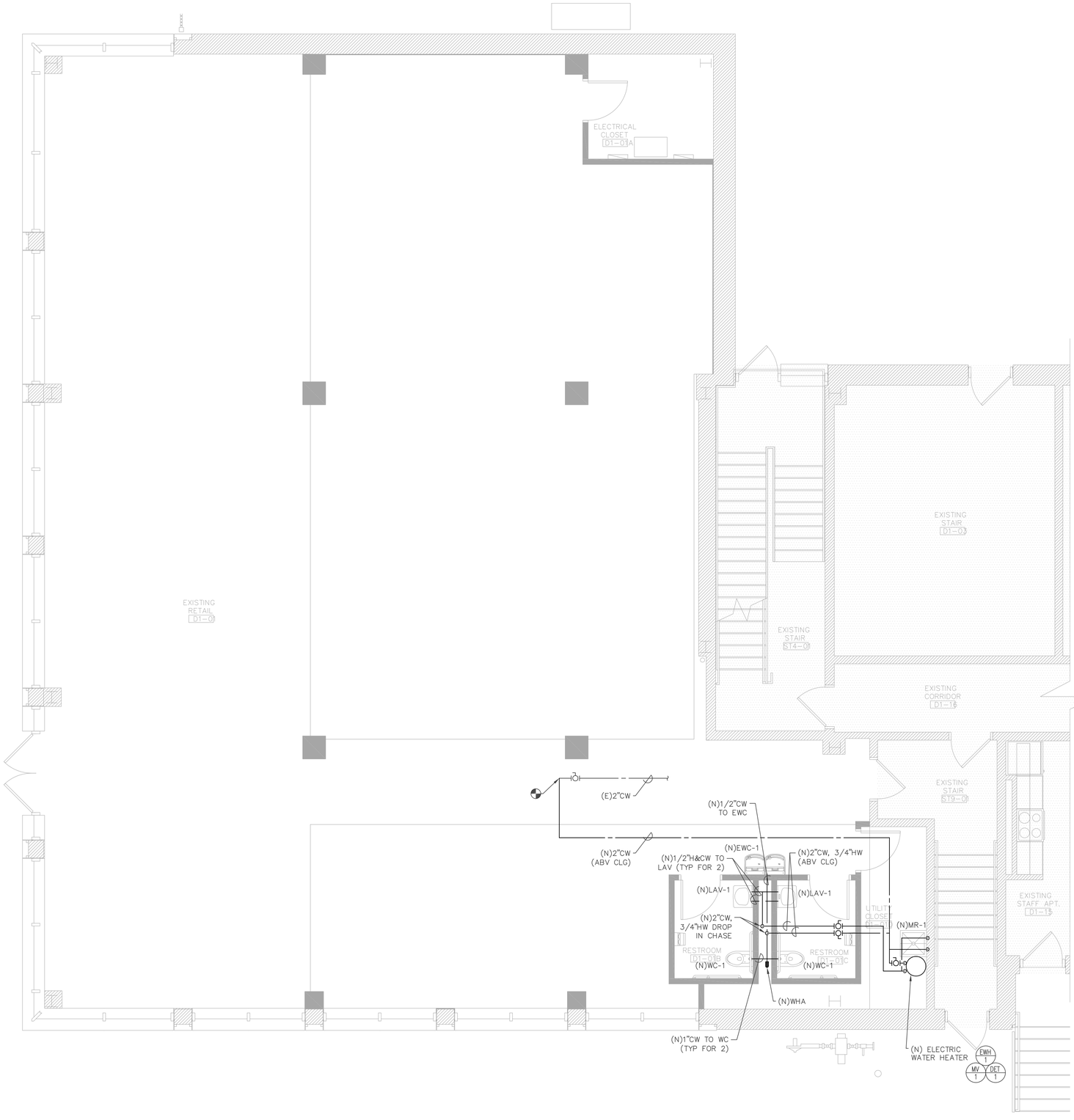

1 P-2.1 PARTIAL PLUMBING DOMESTIC WATER NEW WORK PLAN – BLDG D

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

0' 1' 2' 4' 8'

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

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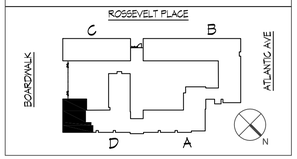
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

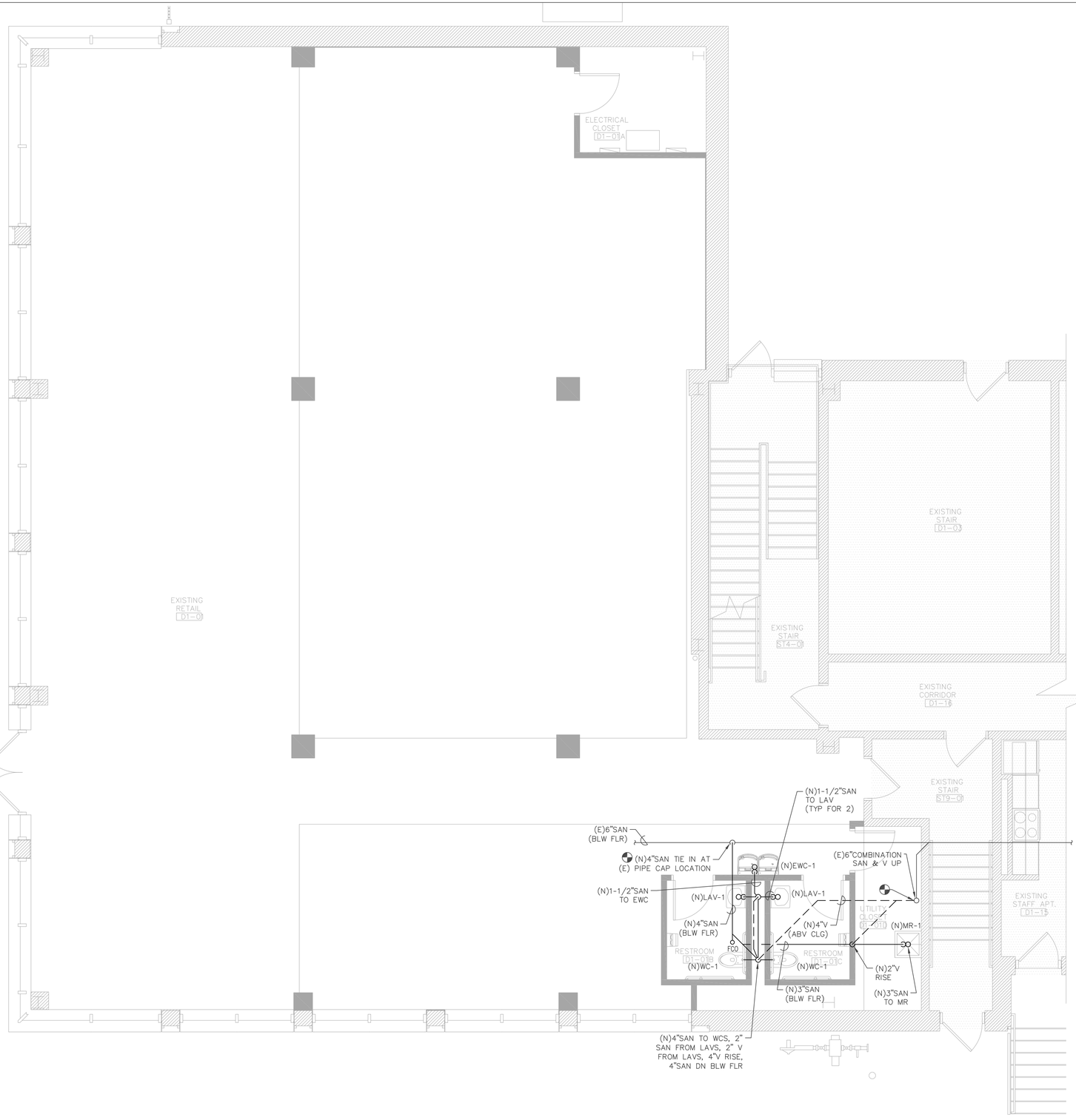
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL PLUMBING DOMESTIC WATER NEW WORK PLAN -
BUILDING D - ALTERNATE BID

SHEET: 31 of 49

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: JMS	DRAWING NO. P-2.1	REVISION
DATE: 05/22/2020		
PROJECT NO.:		



1 P-2.2 PARTIAL PLUMBING SANITARY & VENT NEW WORK PLAN – BLDG D

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

0' 1' 2' 4' 8'

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

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New Jersey Lic. # 44806

Professional Engineer
Anthony H. Caucci

CLIENT:

YEZZI ASSOCIATES

MEP ENGINEER:

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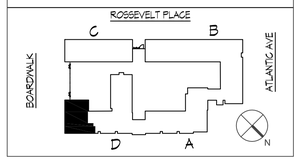

PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL PLUMBING SANITARY & VENT NEW WORK PLAN - BUILDING D - ALTERNATE BID

SHEET: 32 OF 49

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: JMS	DRAWING NO. P-2.2		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

ABBREVIATIONS

ABV	ABOVE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE
AVG	AVERAGE
BLDG	BUILDING
BV	BUTTERFLY VALVE
CA	COMPRESSED AIR
CLG	CEILING
COL	COLUMN
CON	CONCENTRIC
CONC	CONCRETE
CONT	CONTINUATION
CONTR	CONTRACTOR
DEPT	DEPARTMENT
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DIW	DOWN IN WALL
DN	DOWN
DWG	DRAWING
EA	EACH
(E)	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRIC
EQUIV	EQUIVALENT
FAC	FIRE ALARM CONTRACTOR
FACP	FIRE ALARM CONTROL PANEL
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISHED FLOOR
FLR	FLOOR
FM	FACTORY MUTUAL
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSM	FIRE SERVICE MAIN
FT	FEET
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
HD	HEAD
HP	HORSEPOWER
HR	HOUR
HZ	HERTZ
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
(N)	NEW
NTS	NOT TO SCALE
PD	PRESSURE DROP
PC	PLUMBING CONTRACTOR
PH	PHASE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
(R)	EXISTING TO REMOVE
RAC	RUN ABOVE CEILING
RAF	RUN ABOVE FLOOR
RBF	RUN BELOW FLOOR
RBG	RUN BELOW GRADE
RBR	RUN BELOW ROOF
RBS	RUN BELOW STEEL
REQ	REQUIRED
RIW	RUN IN WALL
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SPEC	SPECIFICATION
STD	STANDARD
STL	STEEL
SYS	SYSTEM
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TS	TAMPER SWITCH
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WIDTH
W/O	WITHOUT
WC	WATER COLUMN
WG	WATER GAUGE

LINE DESIGNATIONS

SPM — SPRINKLER MAIN

FSM — FIRE SERVICE MAIN

FIRE PROTECTION SYMBOLS

GATE VALVE

BUTTERFLY VALVE

BALL VALVE

CHECK VALVE

PIPE RISING UP

PIPE DROPPING DOWN

CAP

UPRIGHT HEAD

PENDANT HEAD

CONCEALED PENDANT HEAD

ALARM CHECK VALVE AND TRIM

FIRE DEPARTMENT CONNECTION (FDC)

TAMPER SWITCH

MISC. DWG. SYMBOLS

POINT OF CONNECTION

POINT OF DISCONNECT

POINT OF CONNECTION FOR FUTURE WORK

EQUIPMENT SYMBOL

EQUIPMENT NUMBER OR FLOW (GPM,CFM,ETC.)

DETAIL NUMBER
DETAIL DRAWING NUMBER

SECTION LETTER

SECTION DRAWING NUMBER

PLAN NUMBER

PLAN DRAWING NUMBER

KEYED DEMOLITION NOTE

KEYED NEW WORK NOTE

SCOPE OF WORK INFORMATION

SCOPE OF WORK INFORMATION:

PROVIDE AND INSTALL A COMPLETE AND OPERATING SPRINKLER SYSTEM IN ACCORDANCE WITH THE ACCOMPANYING CONTRACT DOCUMENTS. THIS SHALL INCLUDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, SUPERVISION, AND TESTING. THE WORK INCLUDES THE FOLLOWING SYSTEMS, EQUIPMENT, MATERIALS, AND LABOR BUT IS NOT NECESSARILY LIMITED BY THIS SUMMARY.

A. MODIFICATIONS TO EXISTING SYSTEM TO PROVIDE A COMPLETE WET SPRINKLER SYSTEM WITHIN RENOVATED AREAS INCLUDING ALL SPRINKLER HEADS AND PIPING. PROTECT ALL AREAS FULLY AS REQUIRED BY CODE. SYSTEM SHALL BE HYDRAULICALLY DESIGNED PER CODE. CONTRACTOR SHALL PROVIDE COMPLETE COVERAGE.

B. DRAINS AS REQUIRED.

C. THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE INSTALLATION OF NEW SPRINKLER HEADS AND PIPING IN NEW CEILINGS WHERE SHOWN ON THE DRAWINGS AND EXTENSION OF PIPING AS REQUIRED TO CONNECT THE NEW SPRINKLER HEADS TO THE EXISTING BRANCH AND/OR MAIN PIPING SYSTEM. NEW PIPE BRANCHES SHALL BE CONNECTED TO EXISTING PIPING OF SUFFICIENT SIZE TO ACCOMODATE THE NEW SPRINKLER HEAD PLAN SO AS TO PROVIDE A FULLY OPERATIONAL HYDRAULICALLY DESIGNED SYSTEM. VERIFY ALL EXISTING PIPE SIZES FOR USE IN NEW SYSTEM.

NOTES

THE FOLLOWING NOTES APPLY TO ALL "FP" FIRE PROTECTION DRAWINGS:

1. ENTIRE INSTALLATION SHALL MEET THE REQUIREMENTS OF THE FOLLOWING:

   A. NFPA #13 STATE ADOPTED EDITION.

   B. COUNTY AND STATE BUILDING CODE REGULATIONS.

   C. INTERNATIONAL BUILDING CODE, 2018.

2. ALL SYSTEMS SHALL BE DESIGNED ON A HYDRAULICALLY CALCULATED BASIS BY THE FIRE PROTECTION CONTRACTOR. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY WHICH WILL BE SUBMITTED TO THE BUILDING CODE OFFICIAL FOR APPROVAL.

3. FIRE PROTECTION DESIGN SHOWN IS A PROTOTYPIC DESIGN PROVIDING DESIGN STANDARDS FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO HAVE PREPARED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER, A FIRE PROTECTION SUPPRESSION SYSTEM DESIGN, COMPLETE WITH SHOP DRAWINGS AND HYDRAULIC CALCULATION, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT, ENGINEER. AFTER THEIR APPROVAL, SUBMIT TO AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO PERFORMANCE OF ANY WORK. SHOP DRAWINGS SHALL SHOW PIPE ROUTING, SPRINKLER LOCATIONS AND ANY OTHER INFORMATION REQUIRED TO MAKE COMPLETE CONSTRUCTION DOCUMENTS. PROVIDE COPIES OF ALL DOCUMENTATION FOR NEW EQUIPMENT, PIPING, SPRINKLER HEADS, ETC., WITH THE SUBMITTAL.

4. THE FIRE PROTECTION CONTRACTOR SHALL MAKE ALL NECESSARY SUBMISSIONS (STATE AND LOCAL AUTHORITIES) AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO STARTING FABRICATION AND CONSTRUCTION.

5. PRIOR TO STARTING SHOP DRAWINGS, THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN A FLOW TEST ON THE WATER SUPPLY PERFORMED WITHIN THE LAST 12 MONTHS INDICATING STATIC PRESSURE AND INSTANTANEOUS GALLONS PER MINUTE (GPM) WITH RESULTANT RESIDUAL PRESSURE.

6. ALL EQUIPMENT, DEVICES AND MATERIALS USED IN THE INSTALLATION SHALL BE LISTED BY UNDERWRITER'S LABORATORY (UL) AND/OR APPROVED BY FACTORY MUTUAL (FM).

7. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ENTIRE SYSTEM WITH ALL BUILDING AND CEILING ELEMENTS INCLUDING, BUT NOT LIMITED TO, PIPING, DUCTWORK, DIFFUSERS, LIGHTING FIXTURES, ETC.

8. WHERE EXPOSED, THE SPRINKLER SYSTEM PIPING SHALL BE RUN PARALLEL AND/OR PERPENDICULAR TO STRUCTURAL ELEMENTS AS APPLICABLE.

9. PROVIDE SPRINKLER HEADS OVER AND UNDER DUCTWORK OR OTHER OBSTRUCTIONS 48" AND GREATER IN WIDTH.

10. PROVIDE ADDITIONAL SPRINKLER HEADS TO COMPLY WITH NFPA SPRINKLER COVERAGE, UNDERWRITER, LOCAL FIRE OFFICIAL, ETC., REQUIREMENTS ABOVE AND BEYOND THE MINIMUM QUANTITIES SPRINKLER HEAD SHOWN OR SPECIFIED.

11. SPRINKLER HEAD TYPES AND TEMPERATURE RATING SHALL BE BASED ON NFPA REQUIREMENTS FOR THE BUILDING CLASSIFICATION.

NEW SPRINKLER HEADS SHALL BE AS INDICATED:
UPRIGHT: VIKING MODEL "VK108"
CONCEALED PENDENT: VIKING MODEL "VK462"
STANDARD PENDENT: VIKING MODEL "VK110"

PROVIDE ESCUTCHEON PLATES WHERE REQUIRED BY CEILING CONFIGURATION.
ALL SPRINKLERS ARE TO BE U.L. LISTED AND/OR F.M. APPROVED.
ALL SPRINKLERS SHALL HAVE TEMPERATURE RATINGS OF 135°F TO 170°F, "ORDINARY" CLASSIFICATION WITH APPLICABLE COLOR CODE.
SPRINKLERS OF INTERMEDIATE OR HIGH TEMPERATURE RATINGS SHALL BE INSTALLED WHERE REQUIRED PER NFPA 13, 4-3.1.3.

CONCEALED PENDENT COVER PLATES SHALL BE COLOR TO MATCH ARCHITECTURAL COLOR SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.

COVER PLATES SHALL NOT BE COLORED IN FIELD.

12. PROVIDE TAMPER SWITCHES FOR ALL OS&Y GATE VALVES AND INDICATING TYPE VALVES.

13. PROVIDE FLOW SWITCHES FOR EACH SPRINKLER ZONE.

14. PROVIDE TEST VALVES FOR EACH SPRINKLER ZONE.

15. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ROOM LAYOUTS, ROOM DIMENSIONS, CEILING HEIGHTS, BUILDING CONSTRUCTION AND ALL OTHER ARCHITECTURAL AND STRUCTURAL DETAILS IMPACTING DESIGN.

16. DO NOT RUN PIPING OVER OR THROUGH ANY ELECTRICAL EQUIPMENT. UNLESS BRANCH LINE IS TO SERVE ROOM.

17. IT SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO COORDINATE WITH THE ELECTRICAL CONTRACTOR DURING CONSTRUCTION TO IDENTIFY AND LOCATE ON THE CONTRACT DRAWINGS THE LOCATION AND POWER REQUIREMENTS FOR ALL EQUIPMENT AND COMPONENTS RELATED TO THE SPRINKLER SYSTEM.

18. THE BUILDING SHALL BE PROVIDED WITH SPRINKLER COVERAGE AS INDICATED ON THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO, UNDERSIDE OF ROOF, ABOVE CEILING AND OTHER CONCEALED SPACES, WHERE COMBUSTIBLES ARE PRESENT, IN ACCORDANCE WITH NFPA 13 AND THE AUTHORITY HAVING JURISDICTION. REFER TO ARCHITECTURAL PLANS, ROOM FINISH SCHEDULE AND OTHER CONTRACT DRAWINGS.

19. ALL RESTROOM & CORRIDOR AREAS – LIGHT HAZARD. ALL MERCANTILE & STORAGE AREAS – ORDINARY HAZARD

20. COORDINATE FLOW SWITCH, TAMPER SWITCH, AND ALL OTHER ALARM DEVICE LOCATIONS AND QUANTITIES WITH FIRE ALARM CONTRACTOR.

21. SPRINKLER NEAR HEAT SOURCES SHALL BE PROVIDED IN ACCORDANCE TO NFPA 13 WITH RESPECT TO TEMPERATURE RATING AND LOCATION.

22. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE SPRINKLER HEADS FOR COVERAGE AS OUTLINED PER NFPA 13 REQUIREMENTS AND SHALL BE INSTALLED IN CENTER OF TILE IN A SYMMETRICAL AND ORDERLY FASHION COORDINATED WITH ALL CEILING DEVICES (I.E. DIFFUSERS. LIGHTS , SMOKE DETECTORS, ETC.)

23. SPRINKLER SYSTEM PIPING: SCHEDULE 10 W/ GROOVED LOCKED FITTING: 2-1/2" & LARGER. SCREWED FITTING: 2" AND SMALLER

24. ALL WORK SHALL BE INSPECTED BY THE INSURER AND ANY LOCAL AUTHORITIES HAVING JURISDICTION. CERTIFIED COPIES OF THESE APPROVALS SHALL BE DELIVERED TO THE OWNER BEFORE FINAL PAYMENT. ALL TESTS SHALL BE WITNESSED BY OWNER'S REPRESENTATIVE.

25. SPRINKLER LOCATIONS SHOWN ON THESE DRAWINGS ARE SUGGESTED LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DESIGN USING ARCHITECTURAL, STRUCTURAL, INTERIOR DESIGN, AND ALL OTHER APPLICABLE DOCUMENTS AS REQUIRED TO PROVIDE A FULLY SPRINKLERED BUILDING IN ACCORDANCE WITH NFPA SPECIFICATIONS.

SYSTEM IMPAIRMENT CODE REQUIREMENTS

1. FIRE PROTECTION SYSTEMS OUT OF SERVICE (IMPAIRMANT)

WHILE A REQUIRED FIRE PROTECTION SYSTEM IS OUT OF SERVICE, THE FIRE DEPARTMENT AND THE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY AND, WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL OCCUPANTS LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE FIRE SERVICE HAS BEEN RETURNED TO SERVICE.

2. IMPAIRMENT COORDINATOR

THE BUILDING OWNER SHALL ASSIGN AN IMPAIRMENT COORDINATOR TO COMPLY WITH THESE REQUIREMENTS. IN THE ABSENCE OF A SPECIFIC DESIGNEE, THE OWNER SHALL BE CONSIDERED THE IMPAIRMENT COORDINATOR.

3. TAG REQUIRED

A TAG SHALL BE USED TO INDICATE THAT A SYSTEM OR PORTION OF A SYSTEM HAS BEEN REMOVED FROM SERVICE.

4. PLACEMENT OF TAG

THE TAG SHALL BE POSTED AT EACH FIRE DEPARTMENT CONNECTION, SYSTEM CONTROL VALVE, FIRE ALARM CONTROL UNIT, FIRE ALARM ENUNCIATOR AND FIRE COMMAND CENTER INDICATING WHICH PART OF THE SYSTEM HAS BEEN REMOVED FROM SERVICE, THE CODE OFFICIAL SHALL SPECIFY WHERE THE TAG IS TO BE PLACED.

5. RESTORING SYSTEM TO SERVICE

WHEN SYSTEM IS RESTORED TO NORMAL WORKING ORDER, THE IMPAIRMENT COORDINATOR SHALL VERIFY THAT ALL OF THE FOLLOWING PROCEDURES HAVE BEEN IMPLEMENTED:

5.1. NECESSARY INSPECTIONS AND TESTS HAVE BEEN CONDUCTED TO VERIFY THAT AFFECTED SYSTEMS ARE OPERATIONAL.
5.2. SUPERVISORS HAVE BEEN ADVISED THAT PROTECTION HAS BEEN RESTORED.
5.3. FIRE DEPARTMENT HAS BEEN ADVISED THAT PROTECTION HAS BEEN RESTORED.
5.4. THE BUILDING OWNER/MANAGER, INSURANCE CARRIER, ALARM COMPANY, AND OTHER INVOLVED PARTIES HAVE BEEN ADVISED THAT THE PROTECTION HAS BEEN RESTORED.
5.5. THE IMPAIRMENT TAG HAS BEEN REMOVED.

FIRE PROTECTION NOTES – TEMPORARY PROTECTION

1. WHEN CEILINGS ARE REMOVED OR FOR ANY REASON EXISTING SPRINKLER PROTECTION IS NOT MAINTAINED DURING CONSTRUCTION, PROVIDE TEMPORARY SPRINKLER PROTECTION. SPRINKLER CONTRACTOR SHALL REMOVE EXISTING PENDENT HEADS AND DROPS AND INSTALL UPRIGHT HEADS FROM ADDED 1"SPRIGS FROM THE SAME CONNECTION. WHERE EXISTING SPRINKLER QUANTITIES ARE NOT SUFFICIENT FOR SPRINKLER PROTECTION, UPRIGHT SPRINKLERS SHALL BE ADDED. PERFORM HYDRAULIC CALCULATIONS FOR ADDED SPRINKLERS BASED ON 0.15 GALLONS PER MINUTE PER SQUARE FOOT FOR A MINIMUM 1500 SQUARE FOOT AREA.

2. WHERE TEMPORARY CONSTRUCTION WALLS ARE INSTALLED TO ISOLATE WORK AREA, CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF SPRINKLERS ON EITHER SIDE OF WALL AS REQUIRED TO PROVIDE PROPER SPRINKLER PROTECTION.

FIRE WATCH AND SCHEDULING REQUIREMENTS

FIRE WATCH AND SCHEDULING REQUIREMENTS

1. PROJECT SCHEDULING MUST BE COORDINATED WITH THE LOCAL AUTHORITIES HAVING JURISDICTION 2 WEEKS BEFORE PROJECT IS TO START.

2. CONTRACTOR IS TO SUBMIT CONSTRUCTION SCHEDULE AND TIMES TO BOTH ENGINEER/ARCHITECT AND LOCAL AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL.

3. A FIRE WATCH WILL BE REQUIRED DURING SYSTEM DOWNTIME. CONTRACTOR IS RESPONSIBLE FOR DEACTIVATING SYSTEM AND ACTIVATING SYSTEM ONCE PROJECT IS COMPLETED AND APPROVED.

4. FIRE WATCH REQUIREMENTS ARE AS OUTLINED BY THE LOCAL AUTHORITIES HAVING JURISDICTION. THE PROCEDURES, AS OUTLINED BY THE LOCAL AUTHORITIES HAVING JURISDICTION, MUST BE FOLLOWED EXACTLY.

5. CONTRACTOR IS RESPONSIBLE FOR FIRE ALARM SYSTEM DEACTIVATION AND ACTIVATION ASSOCIATED WITH THE SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES.

6. MAXIMUM SYSTEM DOWN TIME IS 8 HRS (FROM 8AM TO 4PM ON A WEEKDAY). CONTRACT REQUIREMENTS INCLUDE FULL COORDINATION WITH THE OWNER AND THE LOCAL AUTHORITIES HAVING JURIDICTION.

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Professional Engineer
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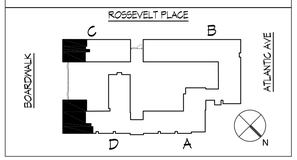

PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

FIRE PROTECTION NOTES, LEGEND, SYMBOLS & ABBREVIATIONS

SHEET: 33 OF 49

DRAWN BY: DHB		SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: JMS		DRAWING NO. FP-0.1	REVISION
DATE: 05/22/2020			
PROJECT NO.:			

1 / FPD-1 PARTIAL FIRE PROTECTION DEMOLITION PLAN – BLDG C

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

0' 1' 2' 4' 8'

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

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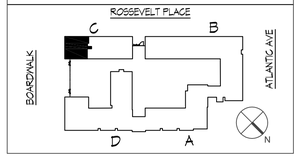

PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL FIRE PROTECTION
DEMOLITION PLAN -
BUILDING C - BASE BID

SHEET: 34 OF 49

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: JMS	DRAWING NO. FPD-1	REVISION
DATE: 05/22/2020		
PROJECT NO.:		

1 FPD-2 PARTIAL FIRE PROTECTION DEMOLTION PLAN – BLDG D
SCALE: 1/4" = 1'-0"

0' 1' 2' 4' 8'
SCALE BAR: 1/4"=1'-0"

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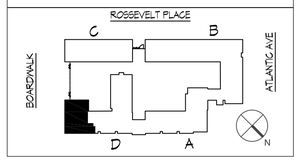

PROJECT:

PROPOSED WHITEBOX FITOUT

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3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL FIRE PROTECTION
DEMOLITION PLAN -
BUILDING D - ALTERNATE BID

SHEET: 35 OF 49

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24	
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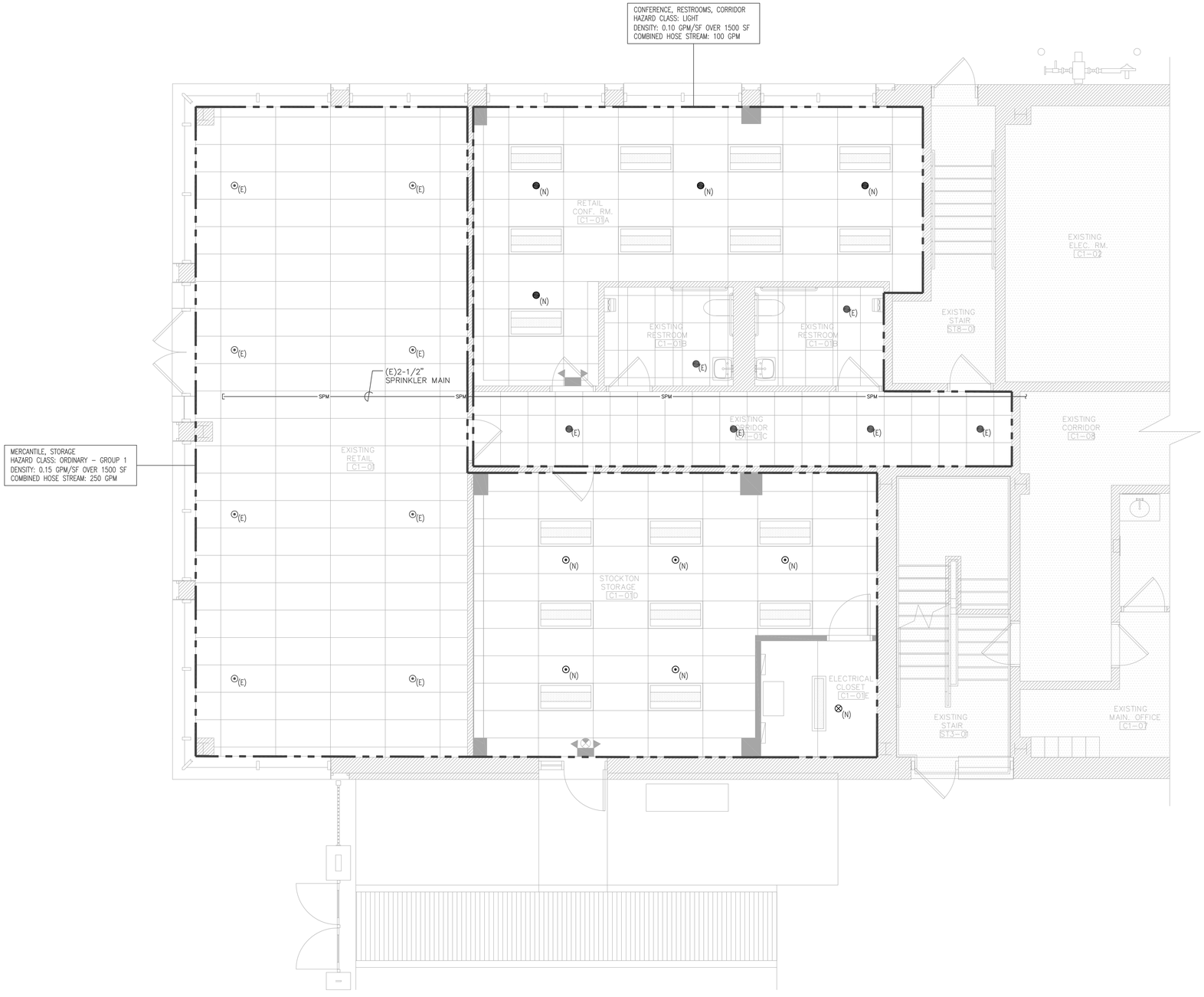

1 / FP–1 PARTIAL FIRE PROTECTION NEW WORK PLAN – BLDG C

SCALE: 1/4" = 1'–0"

SCALE BAR: 1/4"=1'-0" (0' 1' 2' 4' 8')

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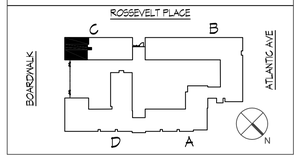

PROJECT:

PROPOSED WHITEBOX FITOUT

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3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL FIRE PROTECTION
NEW WORK PLAN -
BUILDING C - BASE BID

SHEET: 36 OF 49

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24	
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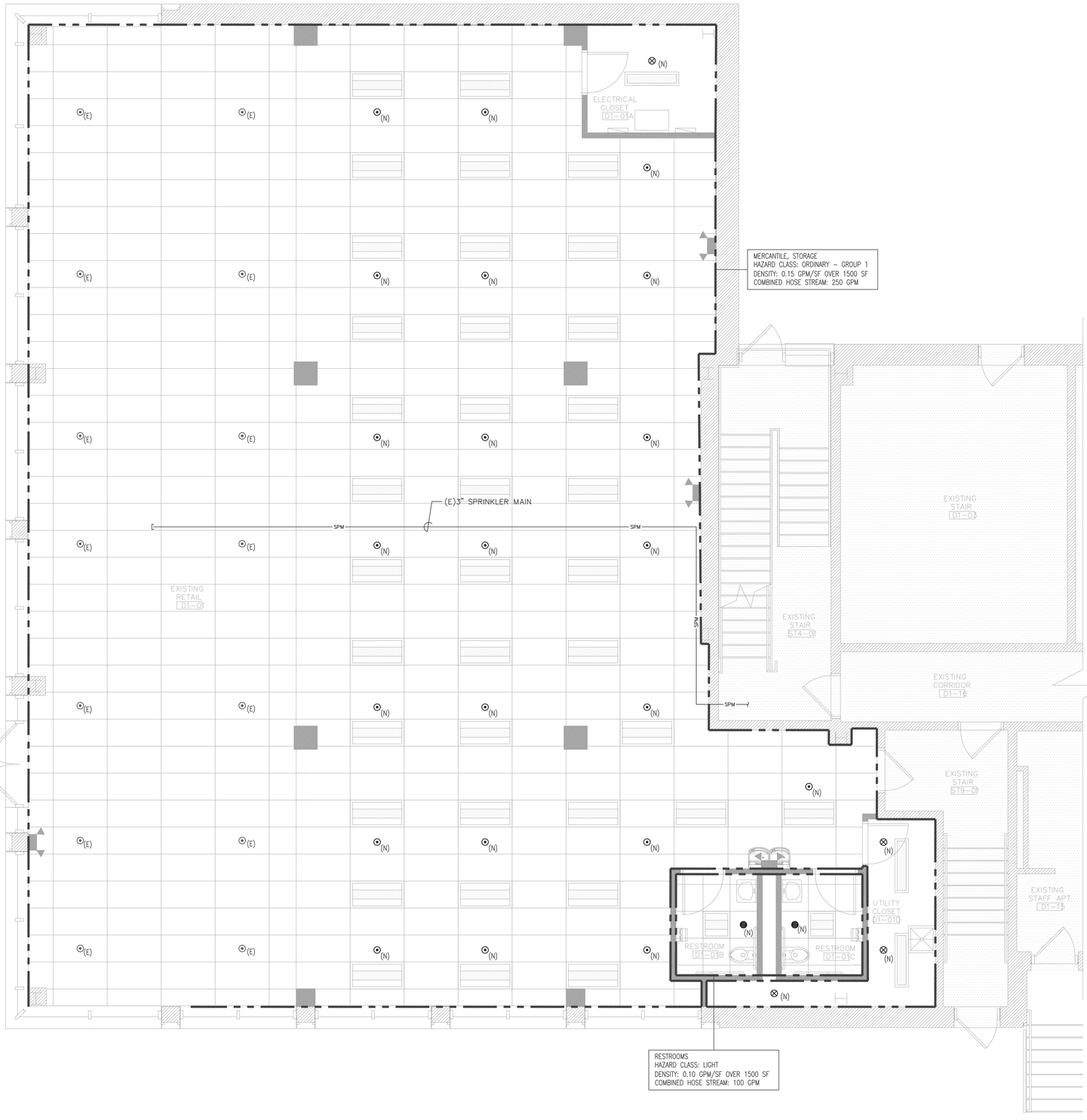

1 P-2.1 PARTIAL FIRE PROTECTION NEW WORK PLAN – BLDG D

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0' 1' 2' 4' 8'

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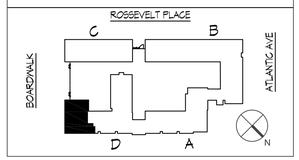
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL FIRE PROTECTION
NEW WORK PLAN -
BUILDING D - ALTERNATE BID

SHEET: 37 OF 49

DRAWN BY: DHB	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: JMS	DRAWING NO. FP-2		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

ELECTRICAL LEGEND

14 / P1	HOME RUN ARROW INDICATES PANEL AND CIRCUIT NUMBER
	QUADRAPLEX RECEPTACLE - E.C. SHALL FURNISH AND INSTALL A 20A, 125V, SPECIFICATION GRADE QUADRAPLEX RECEPTACLE MOUNTED AT 18" A.F.F. UNLESS DESIGNATED TO BE INSTALLED WITHIN MILLWORK, DEVICES TO BE INSTALLED WITHIN MILLWORK SHALL BE COORDINATED WITH THE ARCHITECT/OWNER IN THE FIELD TO INSURE THE DESIGN INTENT AND WORKING CLEARANCES ARE MET.
	DUPLEX RECEPTACLE - E.C. SHALL FURNISH AND INSTALL A 20A, 125V, SPECIFICATION GRADE DUPLEX RECEPTACLE MOUNTED AT 18" A.F.F. UNLESS DESIGNATED TO BE INSTALLED WITHIN MILLWORK, DEVICES TO BE INSTALLED WITHIN MILLWORK SHALL BE COORDINATED WITH THE ARCHITECT/OWNER IN THE FIELD TO INSURE THE DESIGN INTENT AND WORKING CLEARANCES ARE MET.
WP	DUPLEX RECEPTACLE - E.C. SHALL FURNISH AND INSTALL A 20A, 125V, SPECIFICATION GRADE DUPLEX RECEPTACLE WITH A WEATHER PROOF WHILE IN USE ENCLOSURE MOUNTED AT 18" A.F.F. UNLESS DESIGNATED TO BE INSTALLED WITHIN MILLWORK, DEVICES TO BE INSTALLED WITHIN MILLWORK SHALL BE COORDINATED WITH THE ARCHITECT/OWNER IN THE FIELD TO INSURE THE DESIGN INTENT AND WORKING CLEARANCES ARE MET.
	SPECIAL PURPOSE RECEPTACLE - E.C. SHALL FURNISH AND INSTALL A SPECIFICATION GRADE RECEPTACLE COORDINATED WITH EQUIPMENT TO BE SERVED. MOUNTED AT ELEVATION & LOCATION COORDINATED WITH EQUIPMENT TO BE SERVED.
J	JUNCTION BOX - SIZED PER NEC REQUIREMENTS
	DISCONNECT SWITCH AND POINT OF CONNECTION-SIZED AS REQUIRED.
20AS / 15AF	FUSED DISCONNECT SWITCH, 20 AMP SWITCH WITH 15 AMP FUSES.
	RECESSED MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
T	TRANSFORMER
L/V	INDICATES LOW VOLTAGE
	DATA OUTLET. E.C. SHALL FURNISH AND INSTALL (2) PLENUM RATED CAT 6 CABLES FROM EACH LOCATION TO OWNER DESIGNATED IT RACK. E.C. SHALL LABEL EACH CABLE WITH A DESCRIPTION OF THE ROOM ORIGIN OR SPACE AND PROVIDE 8'-0" OF A CABLE SLACK AT DATA RACK AND 2'-0" OF CABLE SLACK AT DEVICE.
	2' X 4' RECESSED LIGHTING FIXTURE
	2' X 2' RECESSED LIGHTING FIXTURE
	4' LINEAR PENDANT
	EMERGENCY LIGHTING BATTERY PACK WITH TWO (2) LIGHTS HEADS. WIRE TO AREA'S GENERAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND DIMMERS.
	TWO (2) REMOTE EMERGENCY LIGHT HEADS. WIRE TO AREA'S EMERGENCY EXIT SIGN OR EMERGENCY BATTERY PACK.
	EXIT LIGHTING WITH INTEGRAL EMERGENCY BATTERY PACK
S	20A, 120V, SINGLE POLE LIGHTING SWITCH
S_{OC}	LUTRON OCCUPANCY LIGHTING SWITCH
GFI	GROUND FAULT INTERRUPTER
CTR	MOUNTED ABOVE MILLWORK COUNTER
E	EXISTING TO REMAIN
ER	EXISTING TO BE REMOVED AND RETURNED TO OWNER
R	EXISTING TO BE REMOVED AND RELOCATE.
RE	RLOCATE EXISTING IN LOCATION SHOWN.
WP	WEATHERPROOF
I/U	DEVICE LISTED AS IN-USE, GFIC, WEATHERPROOF DEVICE
W	WALL MOUNTED
A.F.F.	ABOVE FINISHED FLOOR
C	CEILING MOUNTED

NOTE:

1. THE SYMBOLS FOR WORK TO BE DEMOLISHED AND REMOVED ARE THE SAME AS THOSE ABOVE EXCEPT THEY ARE DRAWN WITH A DASHED LINE TYPE.
2. ALL SYMBOLS OR ABBREVIATIONS ARE NOT NECESSARILY USED ON THE CONTRACT DRAWINGS.

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK TO BE INSTALLED IN ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY THE UNIFORM CONSTRUCTION CODE - STATE OF NEW JERSEY AND ANY OTHER PARTY HAVING JURISDICTION.
2. ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND APPROVED BY UNDERWRITERS LABORATORY (U.L.) OR ANY OTHER NATIONALLY RECOGNIZED TESTING AGENCY UNLESS NOTED OTHERWISE ON DRAWINGS.
3. ALL NECESSARY PERMITS, INSPECTIONS, AND LICENSES SHALL BE PROCURED AND ALL FEES PAID BY THE CONTRACTOR. SUBMIT TO THE OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM THE APPROVED INSPECTION AGENCY.
4. UPON COMPLETION OF THE WORK, THE ENTIRE WIRING SYSTEM SHALL BE FREE FROM GROUNDS, SHORT CIRCUITS, OPENS, OVERLOADS AND IMPROPER VOLTAGES.
5. PRIOR TO FINAL ACCEPTANCE OF THE WORK, A WRITTEN STATEMENT SHALL BE SUBMITTED TO THE OWNER GUARANTEEING ALL EQUIPMENT AND SYSTEMS AGAINST DEFECTIVE MATERIAL AND WORKMANSHIP FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. UPON NOTICE ALL DEFECTIVE EQUIPMENT, MATERIALS AND SYSTEMS SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER.
6. THIS SET OF DRAWINGS IS DIAGRAMMATIC IN NATURE AND INDICATES THE GENERAL ARRANGEMENT OF THE VARIOUS SYSTEMS AND APPROXIMATE LOCATIONS OF THE EQUIPMENT. THE DRAWINGS ARE INTENDED TO SHOW APPROXIMATE AND RELATIVE LOCATIONS OF MATERIALS AND EQUIPMENT. DRAWINGS SHALL NOT BE SCALED TO DETERMINE EXACT POSITIONS AND CLEARANCES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THAT THERE IS ADEQUATE SPACE AT THE LOCATIONS INDICATED FOR ALL EQUIPMENT PRIOR TO INSTALLATION OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. BECAUSE OF THE DIAGRAMMATIC LAYOUT AND SMALL SCALE OF DRAWINGS, NOT ALL CONDUIT, FIXTURES DEVICES AND RELATED SPECIALTIES ARE INDICATED. PROVIDE ALL SUCH DEVICES AND SPECIALTIES REQUIRED IN SUCH CASES TO INSURE A COMPLETE AND PROPERLY OPERATING INSTALLATION IN ACCORDANCE WITH CODES AND WITHOUT EXTRA COST TO OWNER.
7. WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN PARTICULAR TRADE INVOLVED, THAT IS, PLUMBING WORK SHALL BE PERFORMED BY PLUMBERS, ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICIANS, MECHANICAL WORKED PERFORMED BY STEAM FITTERS AND SHEET METAL MECHANICS.
8. ALL WORK SHALL BE INSPECTED, TESTED AND APPROVED BY THE PROPER AUTHORITIES HAVING JURISDICTION. CERTIFIED COPIES OF THESE APPROVALS SHALL BE DELIVERED TO THE OWNER BEFORE FINAL PAYMENT.
9. ELECTRICAL CONTRACTOR SHALL SECURE SHOP DRAWINGS FROM OTHER CONTRACTORS AND VERIFY EXACT ELECTRICAL CHARACTERISTICS OF EQUIPMENT TO BE WIRED PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED BETWEEN THE ELECTRICAL CONTRACT DRAWINGS AND OTHER CONTRACTOR SHOP DRAWINGS, ELECTRICAL CONTRACTOR IS TO NOTIFY ENGINEER AT ONCE. FAILURE TO PERFORM THIS DUTY WILL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY TO CORRECT WIRING DEFICIENCIES AT NO EXPENSE TO THE OWNER.
10. ALL DEVICES OR EQUIPMENT SHOWN IN SYMBOL FORM SHALL BE WIRED TO ITS RESPECTIVE PANEL.
11. FEEDER AND BRANCH CIRCUIT WIRING SHALL BE COPPER, 600 VOLT CONDUCTOR INSULATION TYPE THHN. THE MINIMUM SIZE 600 VOLT CONDUCTOR SHALL BE #12 AWG FOR POWER AND LIGHTING BRANCH CIRCUIT WIRING. THE MINIMUM SIZE CONDUIT SHALL BE 3/4". ALL CIRCUIT WIRING SIZES LARGER THAN #10 AWG SHALL BE STRANDED AND SMALLER CONDUCTORS SHALL BE SOLID. BRANCH CIRCUITS 100 TO 200 FEET IN LENGTH UTILIZING #12 AWG WIRE SHALL BE INCREASED TO #10 AWG TO THE CENTER OF THE CIRCUIT LOAD AND #12 WIRE TO THE REMAINING DEVICES BEYOND THE LOAD CENTER.
12. ALL INTERIOR WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR METAL CLAD CABLE AND CONCEALED IN WALLS OR IN HUNG CEILING SPACE. WHERE WIRING CANNOT BE CONCEALED IN FINISHED AREAS, IT SHALL BE RUN EXPOSED IN A NEAT MANNER VIA SURFACE RACEWAY. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.
13. ALL EXTERIOR WIRING SHALL BE INSTALLED IN ELECTRICAL SCHEDULE 80 PVC CONDUIT AND CONCEALED WHERE POSSIBLE. WHERE WIRING CANNOT BE CONCEALED, IT SHALL BE RUN EXPOSED IN A NEAT MANNER VIA SURFACE RACEWAY. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.
14. ALL WIRING, CONNECTIONS AND DEVICES SHALL BE PROVIDED TO COMPLY WITH THE GROUNDING REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE DRAWINGS UNLESS NOTED OTHERWISE. ALL EXPOSED NON-CURRENT CARRYING ELECTRICAL EQUIPMENT METALLIC PARTS, RACEWAY SYSTEMS AND WIRING SYSTEM GROUNDING CONDUCTORS SYSTEM SHALL BE GROUNDED.
15. PROVIDE A SEPARATE, GREEN-COLORED, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. THIS CONDUCTOR SHALL BE SEPARATE FROM THE ELECTRICAL SYSTEM NEUTRAL CONDUCTOR. TERMINATE EACH END OF THIS GROUNDING CONDUCTOR ON A U.L. LISTED LUG, BUS OR BUSHING. THE GROUNDING CONDUCTOR SIZE SHALL BE IN ACCORDANCE WITH NEC, TABLE 250.122.
16. THE ELECTRICAL CONTRACTOR SHALL LABEL WITH PERMANENT MARKER ALL JUNCTION BOXES AND RECEPTACLE OUTLET BOXES WITH CIRCUIT NUMBER AND PANEL IDENTIFICATION.
17. ALL CUTTING AND PATCHING REQUIRED FOR THE ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
18. ALL HOLES OR VOIDS CREATED TO ROUTE CONDUIT OR METAL CLAD CABLE THROUGH FIRE-RATED FLOORS, CEILINGS, AND WALLS SHALL BE PROTECTED WITH A 3-HOUR RATED, APPROVED FIRESTOP SYSTEM EQUAL TO 3M FIRE BARRIER CAULK, PUTTY, STRIP AND SHEET FORM, CAPABLE OF EXPANDING UP TO 8 TO 10 TIMES WHEN EXPOSED TO A TEMPERATURE OF 250 DEGREES FAHRENHEIT AND ABOVE. FIRESTOP SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ASME E814 (U.L. 1479) AND NEC ARTICLE 300.21.
19. A COMPLETE SET OF "AS-BUILT" DRAWINGS, (1) SET IN HARD COPY REPRODUCIBLE AND (1) SET OF ELECTRONIC FILES PRODUCED IN PDF FORMAT SHALL BE FURNISHED TO THE OWNER AND ENGINEER UPON PROJECT COMPLETION.
20. ALL EQUIPMENT, DEVICES AND CIRCUITS SHALL BE LABELED ACCORDING TO OWNER REQUIREMENTS.
21. TWO OR THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP TYPE. SINGLE POLE BREAKERS WITH YOKED HANDLE WILL NOT BE PERMITTED.
22. THE ELECTRICAL CONTRACTOR SHALL NOT UTILIZE A "COMMON NEUTRAL" ON MULTIPLE BRANCH CIRCUITS. EACH SUCH CIRCUIT SHALL BE RUN WITH ITS OWN DEDICATED NEUTRAL WIRE.
23. ALL SYSTEM CABLE SHALL BE PLENUM RATED OR RUN IN CONDUIT. SYSTEM CABLE EXPOSED TO PHYSICAL DAMAGE SHALL BE RUN IN CONDUIT. SYSTEM CABLE LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE. CABLES SHALL NOT BE LAID ON CEILING TILES.
24. ALL WIRING AND EQUIPMENT INSTALLED IN DUCTS, PLENUMS AND OTHER AIR HANDLING SPACES TO CONFORM TO NEC, ARTICLE 300.22.
25. THE ELECTRICAL CONTRACTOR SHALL TEST AND ASSURE THAT ANY ELECTRICAL DEVICE OR PRODUCT WHICH ARE TO BE RELOCATED OR REUSED IS IN PROPER WORKING CONDITION IN ACCORDANCE WITH INSTRUCTIONS INCLUDED IN ITS LISTING OR LABELING. ANY DEVICE OR PRODUCT FOUND TO BE DEFECTIVE OR DAMAGED SHALL BE REPLACED WITH NEW.
26. SITE VISIT PRIOR TO BID SUBMISSION:
    - A. PRIOR TO BID SUBMISSION, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS. BIDS AS SUBMITTED WILL BE INTERPRETED TO INCLUDE ALL COSTS AND CHARGES MADE NECESSARY BY EXISTING CONDITIONS.
    - B. ELECTRICAL CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND ELEVATION OF ALL SERVICES IN THE FIELD AFFECTED BY THIS WORK BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY IN THE EVENT OF EXISTING UTILITIES VARY APPRECIABLY FROM THOSE SHOWN ON DRAWINGS.
    - C. THE ENTIRE SCOPE OF WORK SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS.
25. ELECTRICAL CONTRACTOR TO PROVIDE RECEPTACLES TO MATCH PLUGS FURNISHED WITH EQUIPMENT AND POWERED FURNISHINGS.
26. ELECTRICAL CONTRACTOR SHALL LOCATE LIGHTING FIXTURES TO SUIT STRUCTURAL AND ARCHITECTURAL CONDITIONS IN THOSE ROOMS WHERE BEAMS, DROPPED SOFFITS, ACCESS PANELS OR SIMILAR OBSTRUCTIONS REQUIRE A CHANGE IN LIGHTING FIXTURE LAYOUT.
27. ELECTRICAL CONTRACTOR SHALL COORDINATE PLACEMENT OF ALL ELECTRICAL DEVICES WITH MILLWORK CONSTRUCTOR AND ARCHITECT PRIOR TO ROUGH-IN.
28. FOR ALL INSTALLATIONS IN WHICH OUTLET BOXES ARE INSTALLED IN A FIRE- RATED WALL, THE OUTLET BOXES SHALL BE THOMAS & BETTS UNION PHENOLIC THERMOSET BOXES OR EQUAL, INSTALLED PER MANUFACTURERS INSTRUCTIONS.

ELECTRICAL DEMOLITION NOTES

1. IT IS THE INTENT THAT ALL EXISTING CONDUIT, CONDUCTORS, FIXTURES AND OTHER EQUIPMENT AND MATERIALS THAT INTERFERE WITH THE ALTERED EXISTING BUILDING ARRANGEMENTS AND NEW SYSTEMS BE REMOVED, RELOCATED, REROUTED OR ABANDONED. THE DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT ARE TO BE REMOVED, RELOCATED, REROUTED OR ABANDONED. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS. HOWEVER, THEIR REMOVAL, RELOCATIONS, REROUTING OR ABANDONMENT SHALL ALSO BE INCLUDED IN THIS CONTRACT AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
2. EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME ABANDONED DUE TO NEW WORK SHALL BE REMOVED BACK TO THE PANEL.
3. ALL EXISTING ELECTRICAL DEVICES TO BE DEMOLISHED MAY NOT BE SHOWN. CONTRACTOR SHALL DURING PRE-BID SITE VISIT DETERMINE EXTENT OF DEMOLITION AND INCLUDE COST OF THIS WORK IN BID. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS. ALL UNKNOWN BELOW SLAB CONDUIT ENCOUNTERED DURING INSTALLATION OF NEW WORK SHALL BE CAPPED OFF AT ACTIVE MAIN OR BRANCH. ALLOWANCE SHALL BE MADE FOR THESE ITEMS IN BID PRICE.
4. EXISTING EQUIPMENT AND MATERIALS THAT ARE TO REMAIN, BUT BECOME EXPOSED DUE TO NEW WORK, SHALL BE RELOCATED AND RECONNECTED AS DIRECTED BY ARCHITECT.
5. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT AND MATERIALS SHALL BE REVIEWED WITH ARCHITECT AND OWNER BEFORE BEGINNING WORK.
6. REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER SHALL BECOME PROPERTY OF CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM SITE. EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY CONTRACTOR TO AN ON-SITE STORAGE LOCATION DESIGNATED BY OWNER.
7. THE CONTRACTOR MUST SURVEY AND VERIFY LOCATIONS AND PHYSICAL SIZES OF ALL EXISTING ITEMS AND DETERMINE WHETHER RELOCATION OR REROUTING WILL BE REQUIRED. IF RELOCATION OR REROUTING IS REQUIRED, INCLUDING THAT OF ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS, THE CONTRACTOR SHALL INCLUDE ALL NECESSARY WORK AS PART OF HIS CONTRACT AND IT SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
8. ALL DEMOLISHED MATERIALS SHALL BE CAREFULLY REMOVED FROM THE PREMISES BY THE MOST DIRECT PATH. ANY DAMAGE INCURRED BY THE REMOVAL PROCESS SHALL BE REPAIRED TO MATCH THE SURROUNDING WORK AND LEFT IN SATISFACTORY CONDITION. ALL AREAS SHALL BE CLEANED OF ALL DIRT AND DEBRIS RESULTING FROM DEMOLITION.
9. ELECTRICAL CONTRACTOR SHALL DISPOSE OF ALL ELECTRICAL COMPONENTS SUCH AS TRANSFORMERS, FLUORESCENT LAMPS, SMOKE DETECTORS, HEAT DETECTORS, BATTERIES, LIGHTING BALLASTS, ETC. IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL LAWS. COORDINATE DISPOSAL REQUIREMENTS WITH THE GENERAL CONTRACTOR AND THE OWNER.

EXISTING PANEL "TLP2"

MAINS: 200A M.C.B. — FED FROM: EXISTING
VOLTAGE: 208Y/120V, 3Φ, 4W — FEEDER: EXISTING

CONDUIT	WIRE SIZE	SERVICE TO:	KW/PHASE A	KW/PHASE B	KW/PHASE C	CIRCUIT BREAKER AMP	P	NO.	Ø	NO.	P	CIRCUIT BREAKER AMP	KW/PHASE A	KW/PHASE B	KW/PHASE C	SERVICE TO:	WIRE SIZE	CONDUIT
		EXISTING CONV. RECEP.				20	1	1	A	2	2	20				EXISTING CU-1-C		
		EXISTING CONV. RECEP.				20	1	3	B	4	▼	▼				▼		
		EXISTING STAIR HEATER				20	1	5	C	6	2	20				EXISTING CU-5-D		
3/4"	3#12 & 1#12 GRD	A-H-1-1	0.73			20	2	7	A	8	▼	▼				▼		
▼	▼	▼		0.73		▼	▼	9	B	10	2	20				EXISTING STAIR HEATER		
3/4"	3#12 & 1#12 GRD	MCU			0.20	20	2	11	C	12	▼	▼				▼		
▼	▼	▼	0.20			▼	▼	13	A	14	1	20	0.54			RETAIL CONF. RM CONV. RECEP.	2#12 & 1#12 GRD	3/4"
3/4"	2#12 & 1#12 GRD	STORAGE CONV. RECEPT	0.54			20	1	15	B	16	1	20	0.72			RETAIL CONF. RM CONV. RECEP.	2#12 & 1#12 GRD	3/4"
3/4"	2#12 & 1#12 GRD	STORAGE CONF. RECEPT		0.90		20	1	17	C	18	1	20			0.46	EF-3	2#12 & 1#12 GRD	3/4"
		EXISTING CU-4-C				20	2	19	A	20	2	50				EXISTING LOAD		
		▼				▼	▼	21	B	22	▼	▼				▼		
3/4"	3#8 & 1#10 GRD	CU-5-C			2.20	40	2	23	C	24	1	20			0.12	MOTOR OPER. DAMPER (MOD.)	2#12 & 1#12 GRD	3/4"
▼	▼	▼	2.20			▼	▼	25	A	26	1	20	0.20			ELECTRIC DOOR LOCK	2#12 & 1#12 GRD	3/4"
3/4"	3#10 & 1#10 GRD	CU-6-C		1.90		30	2	27	B	28						SPACE		
▼	▼	▼			1.90	▼	▼	29	C	30						SPACE		
3/4"	3#12 & 1#12 GRD	CU-7-C	0.90			15	2	31	A	32						SPACE		
▼	▼	▼		0.90		▼	▼	33	B	34						SPACE		
3/4"	3#12 & 1#12 GRD	WHP-12				20	2	35	C	36						SPACE		
▼	▼	SPACE				▼	▼	37	A	38						SPACE		
		SPACE						39	B	40						SPACE		
		SPACE						41	C	42						SPACE		

LOAD SUMMARY:
ON 05/05/2020 THE LOAD ON THIS EXISTING PANEL WAS MEASURED BY PHASE AS FOLLOWS:
AΦ = 7.6 AMPS
BΦ = 8.4 AMPS
CΦ = 6.7 AMPS
NEUTRAL = 1.2 AMPS

WITH THE ADDED NEW LOAD TO THE EXISTING MEASURED LOADS, THE TOTAL ESTIMATED LOADS ON THIS PANEL BY PHASE ARE:
AΦ = 47.4 AMPS
BΦ = 48.3 AMPS
CΦ = 54.9 AMPS

EXISTING PANEL "THP2"

MAINS: 200A M.L.O. — FED FROM: EXISTING
VOLTAGE: 480Y/277V, 3Φ, 4W — FEEDER: EXISTING

CONDUIT	WIRE SIZE	SERVICE TO:	KW/PHASE A	KW/PHASE B	KW/PHASE C	CIRCUIT BREAKER AMP	P	NO.	Ø	NO.	P	CIRCUIT BREAKER AMP	KW/PHASE A	KW/PHASE B	KW/PHASE C	SERVICE TO:	WIRE SIZE	CONDUIT
3/4"	2#12 & 1#12 GRD	ELEC CLOSET, STORAGE LTG				20	1	1	A	2	3	30				EXISTING DEMAND METER		
		EXISTING LIGHTING LOAD				20	1	3	B	4	▼	▼				▼		
3/4"	2#12 & 1#12 GRD	CONFERENCE RM LTG				20	1	5	C	6	▼	▼				▼		
		SPARE				20	1	7	A	8	3	25	4.20			CU-1	4#10 & 1#10 GRD	3/4"
		SPARE				20	1	9	B	10	▼	▼		4.20		▼	▼	▼
		SPARE				20	1	11	C	12	▼	▼			4.20	▼	▼	▼
		SPACE						13	A	14						SPACE		
		SPACE						15	B	16						SPACE		
		SPACE						17	C	18						SPACE		
		SPACE						19	A	20						SPACE		
		SPACE						21	B	22						SPACE		
		SPACE						23	C	24						SPACE		
		SPACE						25	A	26						SPACE		
		SPACE						27	B	28						SPACE		
		SPACE						29	C	30						SPACE		
		SPACE						31	A	32						SPACE		
		SPACE						33	B	34						SPACE		
		SPACE						35	C	36						SPACE		
		SPACE						37	A	38						SPACE		
		SPACE						39	B	40						SPACE		
		SPACE						41	C	42						SPACE		
										A	3	125				EXISTING TRANSFORMER T-2		
										B	▼	▼				▼		
										C	▼	▼				▼		

LOAD SUMMARY:
ON 05/05/2020 THE LOAD ON THIS EXISTING PANEL WAS MEASURED BY PHASE AS FOLLOWS:
AΦ = 2.1 AMPS
BΦ = 4.4 AMPS
CΦ = 2.1 AMPS
NEUTRAL = 0.9 AMPS

WITH THE ADDED NEW LOAD TO THE EXISTING MEASURED LOADS, THE TOTAL ESTIMATED LOADS ON THIS PANEL BY PHASE ARE:
AΦ = 17.3 AMPS
BΦ = 19.6 AMPS
CΦ = 17.3 AMPS

EXISTING PANEL "THP3"

MAINS: 200A M.L.O. — FED FROM: EXISTING
VOLTAGE: 480Y/277V, 3Φ, 4W — FEEDER: EXISTING

CONDUIT	WIRE SIZE	SERVICE TO:	KW/PHASE A	KW/PHASE B	KW/PHASE C	CIRCUIT BREAKER AMP	P	NO.	Ø	NO.	P	CIRCUIT BREAKER AMP	KW/PHASE A	KW/PHASE B	KW/PHASE C	SERVICE TO:	WIRE SIZE	CONDUIT
3/4"	4#8 & 1#10 GRD	CU-2	7.30			40	3	1	A	2	1	20				EXISTING LTG		
▼	▼	▼		7.30		▼	▼	3	B	4	1	20				RETAIL LTG	2#12 & 1#12 GRD	3/4"
▼	▼	▼			7.30	▼	▼	5	C	6	1	20				RETAIL LTG (NL)	2#12 & 1#12 GRD	3/4"
		SPARE				20	1	7	A	8	3	30				EXISTING DEMAND METER		
		SPARE				20	1	9	B	10	▼	▼				▼		
		SPARE				20	1	11	C	12	▼	▼				▼		
		SPARE				20	1	13	A	14	1	20				SPARE		
		SPACE						15	B	16	1	20				SPARE		
		SPACE						17	C	18						SPACE		
		SPACE						19	A	20						SPACE		
		SPACE						21	B	22						SPACE		
		SPACE						23	C	24						SPACE		
		SPACE						25	A	26						SPACE		
		SPACE						27	B	28						SPACE		
		SPACE						29	C	30						SPACE		
		SPACE						31	A	32						SPACE		
		SPACE						33	B	34						SPACE		
		SPACE						35	C	36						SPACE		
		SPACE						37	A	38						SPACE		
		SPACE						39	B	40						SPACE		
		SPACE						41	C	42						SPACE		
										A	3	125				EXISTING TRANSFORMER T-3		
										B	▼	▼				▼		
										C	▼	▼				▼		

LOAD SUMMARY:
ON 05/05/2020 THE LOAD ON THIS EXISTING PANEL WAS MEASURED BY PHASE AS FOLLOWS:
AΦ = 3.2 AMPS
BΦ = 1.9 AMPS
CΦ = 1.5 AMPS
NEUTRAL = 0.4 AMPS

WITH THE ADDED NEW LOAD TO THE EXISTING MEASURED LOADS, THE TOTAL ESTIMATED LOADS ON THIS PANEL BY PHASE ARE:
AΦ = 29.6 AMPS
BΦ = 28.3 AMPS
CΦ = 27.9 AMPS

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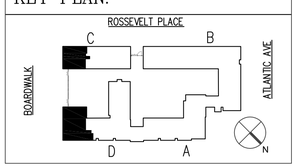
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

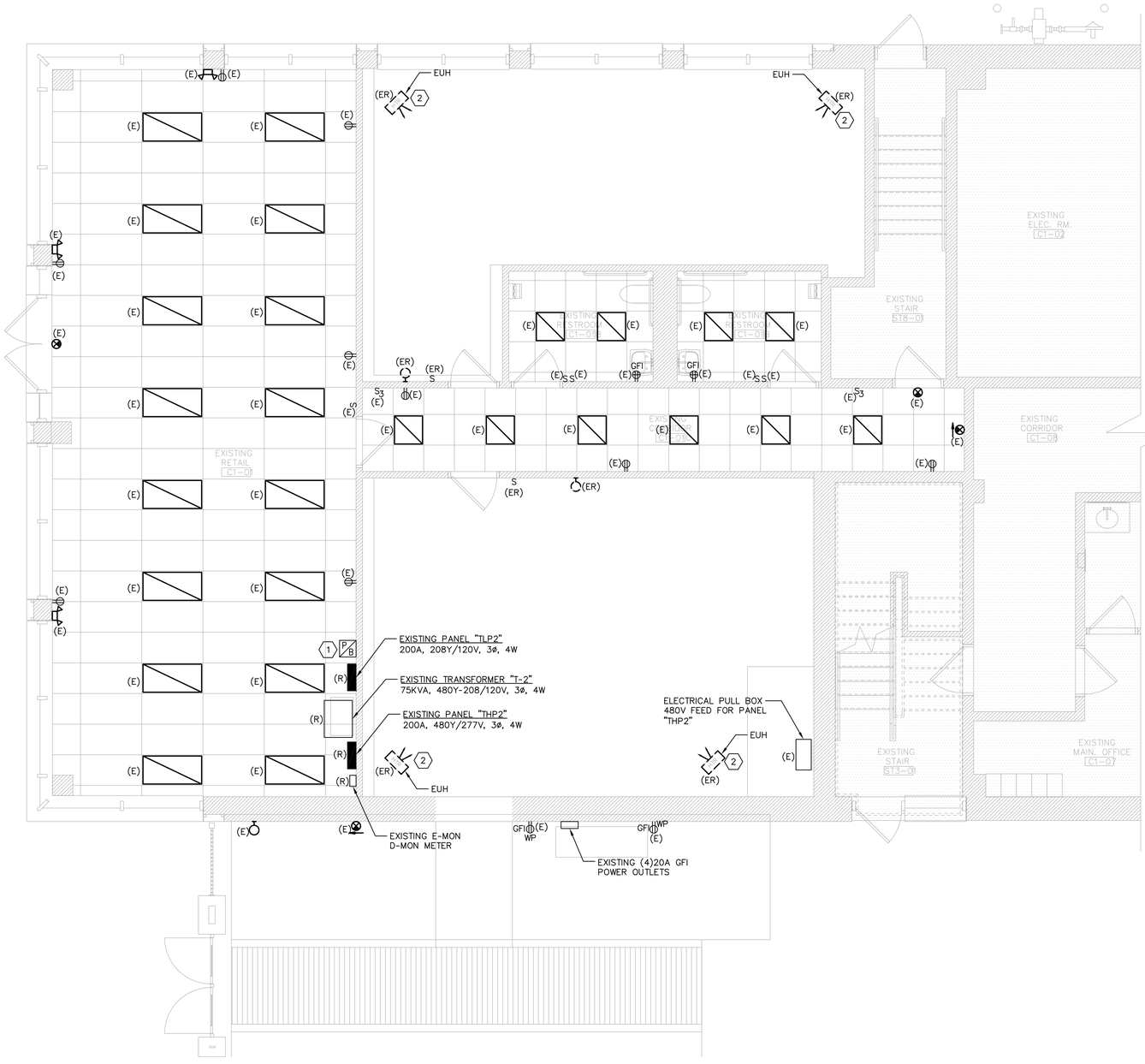
ELECTRICAL NOTES, LEGEND, SYMBOLS & ABBREVIATIONS

SHEET: 38 OF 49

DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: EJT	DRAWING NO. E-0	REVISION	
DATE: 05/22/2020			
PROJECT NO.:			

DEMOLITION KEYED NOTES:

1. E.C. SHALL PROVIDE PULL BOX-SIZE AS REQIRED ABOVE CEILING AND SAFE OFF ALL EXISTING BRANCH CIRCUITS FROM EXISTING PANELS BEFORE RELOCATING THE PANELS. EXTEND ALL EXISTING BRANCH CIRCUITS FROM PULL BOX TO NEW PANELS LOCATION.
2. E.C. SHALL REMOVE EXISTING CONDUCTORS/CONDUITS AND JUNCTION BOXES/LOCAL MEANS OF DISCONNECT BACK TO THE SOURCE PANEL. EXISTING CIRCUIT BREAKERS SHALL BE SALVAGED AND TURNED OVER TO OWNER.



1 ED-1 PARTIAL ELECTRICAL DEMOLITION PLAN – BLDG C
SCALE: 1/4" = 1'-0"

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

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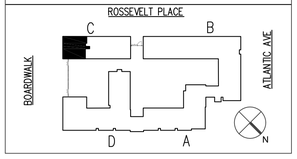
KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

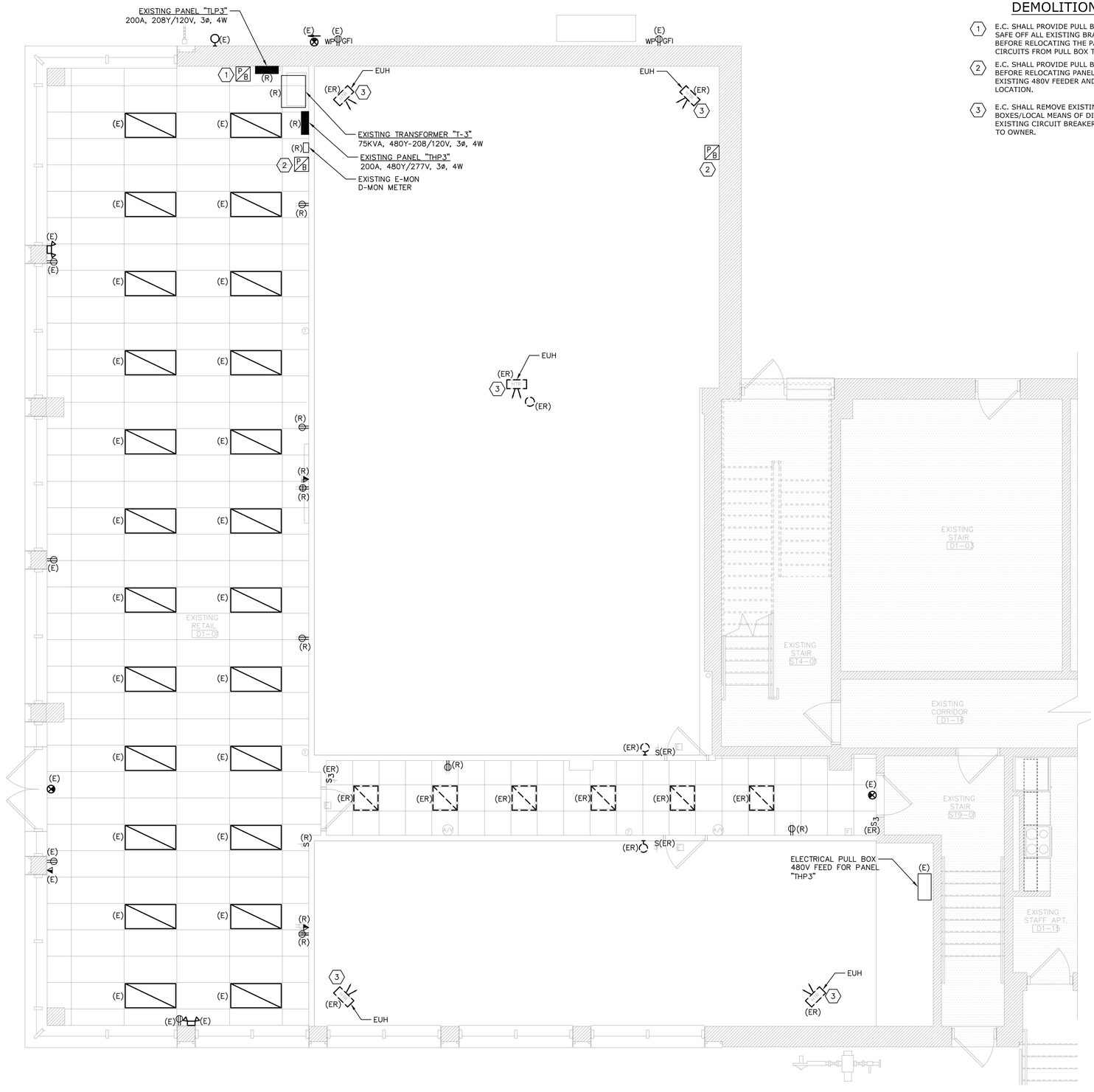
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL ELECTRICAL DEMOLITION PLAN - BUILDING C

SHEET: 39 OF 49

DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: EJT	DRAWING NO. ED-1		REVISION
DATE: 05/22/2020			
PROJECT NO.:			



DEMOLITION KEYED NOTES:

1. E.C. SHALL PROVIDE PULL BOX-SIZE AS REQIRED ABOVE CEILING AND SAFE OFF ALL EXISTING BRANCH CIRCUITS FROM EXISTING PANELS BEFORE RELOCATING THE PANELS. EXTEND ALL EXISTING BRANCH CIRCUITS FROM PULL BOX TO NEW PANELS LOCATION.
2. E.C. SHALL PROVIDE PULL BOX-SIZE AS REQIRED ABOVE CEILING BEFORE RELOCATING PANEL "THP3" TO NEW LOCATION. EXTEND EXISTING 480V FEEDER AND CONDUIT AS REQUIRED TO NEW PANEL LOCATION.
3. E.C. SHALL REMOVE EXISTING CONDUCTORS/CONDUITS AND JUNCTION BOXES/LOCAL MEANS OF DISCONNECT BACK TO THE SOURCE PANEL. EXISTING CIRCUIT BREAKERS SHALL BE SALVAGED AND TURNED OVER TO OWNER.

1 / ED-2 PARTIAL ELECTRICAL DEMOLITION PLAN – BLDG D
SCALE: 1/4" = 1'-0"

SCALE BAR: 1/4"=1'-0" (0' 1' 2' 4' 8')

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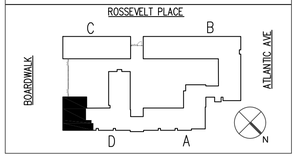
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL ELECTRICAL
DEMOLITION PLAN -
BUILDING D

SHEET: 40 OF 49

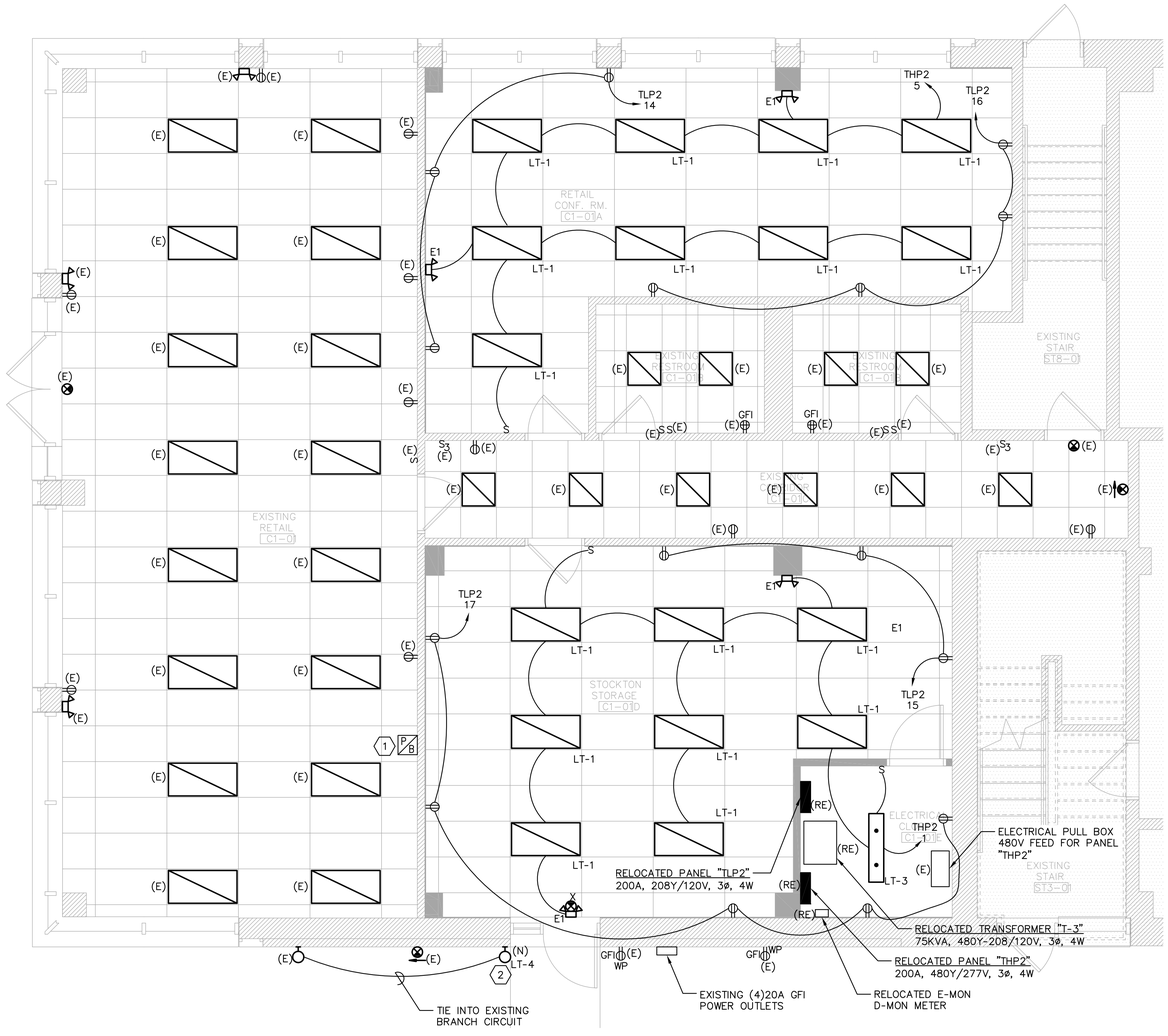
DRAWN BY:	DS	SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY:	EJT	DRAWING NO. ED-2	REVISION
DATE:	05/22/2020		
PROJECT NO.:			

LIGHTING GENERAL NOTES:

1. MATCH WITH EXISTING ZR24 2'x4' LIGHTS HIGH EFFICIENCY LED TROFFER FROM CREE LIGHTING. MATCH FINISHES AND KELVIN TEMPERATURE WITH EXISTING LIGHTS. TYPICAL FOR ALL NEW LT-1 2'x4' LIGHTING.
2. OWNER/ARCHITECT PROVIDED SPEC FOR LT-3 LIGHTS.
3. MATCH WITH EXISTING EMERGENCY BATTERY PACKS. TYPICAL FOR ALL NEW E1 EMERGENCY BATTERY PACKS.
4. MATCH WITH EXISTING EXIT SIGNS. TYPICAL FOR ALL NEW X EXIT SIGNS.

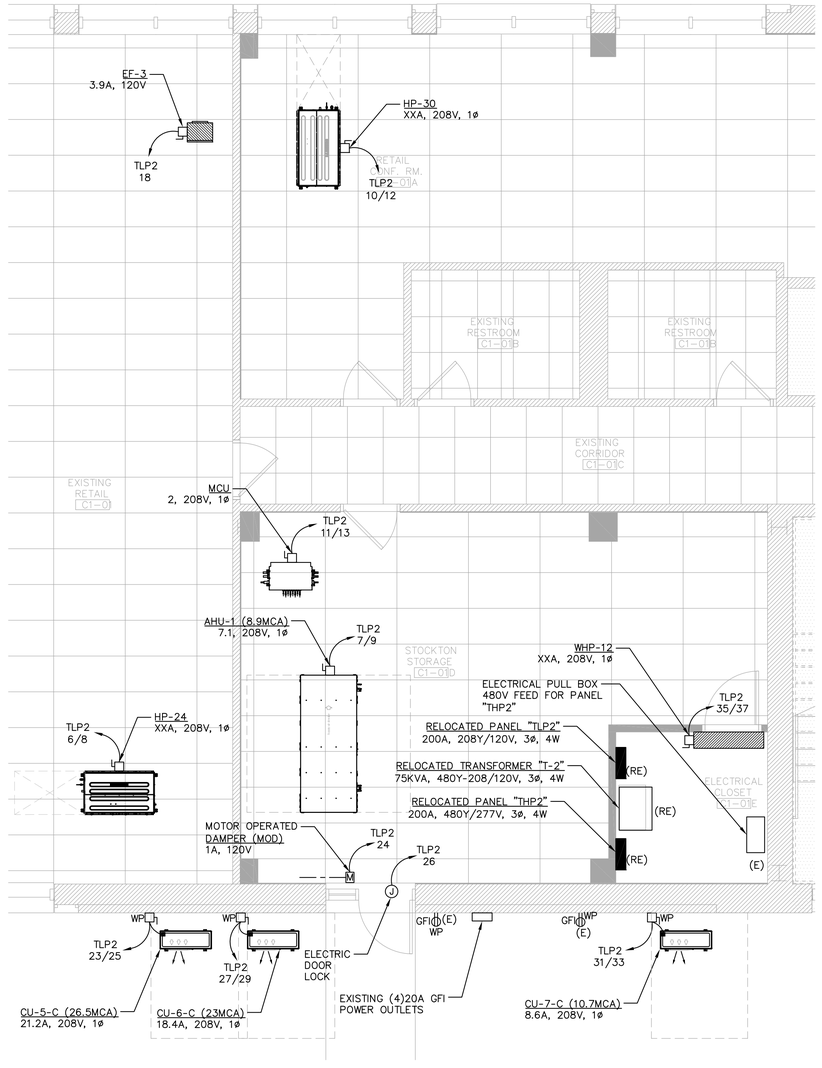
NEW WORK KEYED NOTES:

1. E.C. SHALL PROVIDE PULL BOX-SIZE AS REQIRED ABOVE CEILING AND SAFE OFF ALL EXISTING BRANCH CIRCUITS FROM EXISTING PANELS BEFORE RELOCATING THE PANELS. EXTEND ALL EXISTING BRANCH CIRCUITS FROM PULL BOX TO NEW PANELS LOCATION.
2. PROVIDE NEW WET LOCATION OUTDOOR LED LIGHT TO MATCH EXISTING EXTERIOR LIGHTS. WAC LIGHTING MANUFACTURER MODEL# WS-W53. MATCH FINISH WITH EXISTING LIGHTS.



1 E—1 PARTIAL ELECTRICAL NEW WORK PLAN – BLDG C
SCALE: 1/4" = 1'–0"

0' 1' 2' 4' 8'
SCALE BAR: 1/4"=1'-0"



2 E—1 PARTIAL MECH EQUIPMENT POWER NEW WORK PLAN – BLDG C
SCALE: 1/4" = 1'–0"

0' 1' 2' 4' 8'
SCALE BAR: 1/4"=1'-0"

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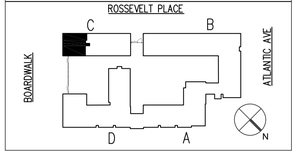
REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

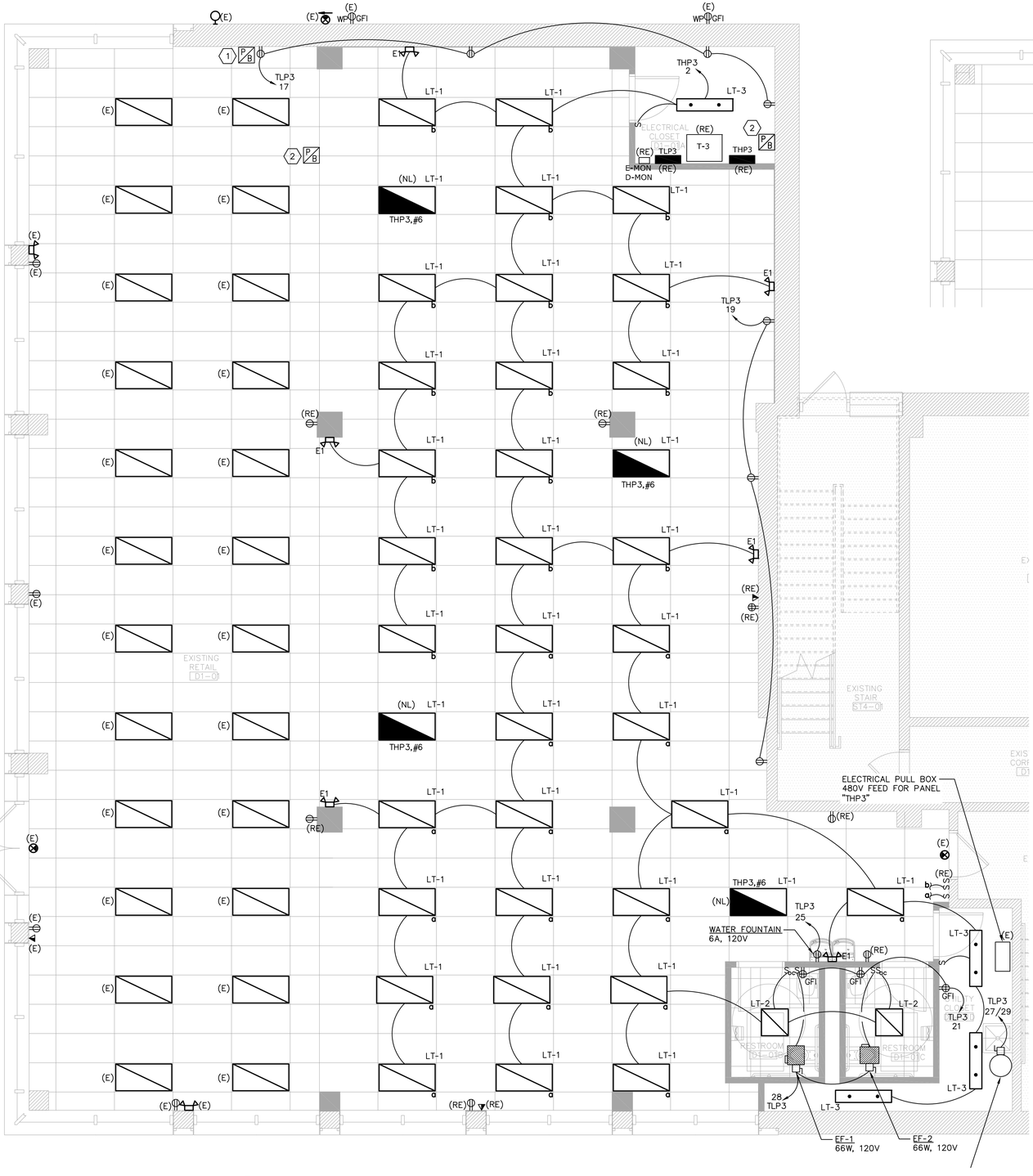
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL ELECTRICAL
NEW WORK PLAN -
BUILDING C - BASE BID

SHEET: 41 OF 49

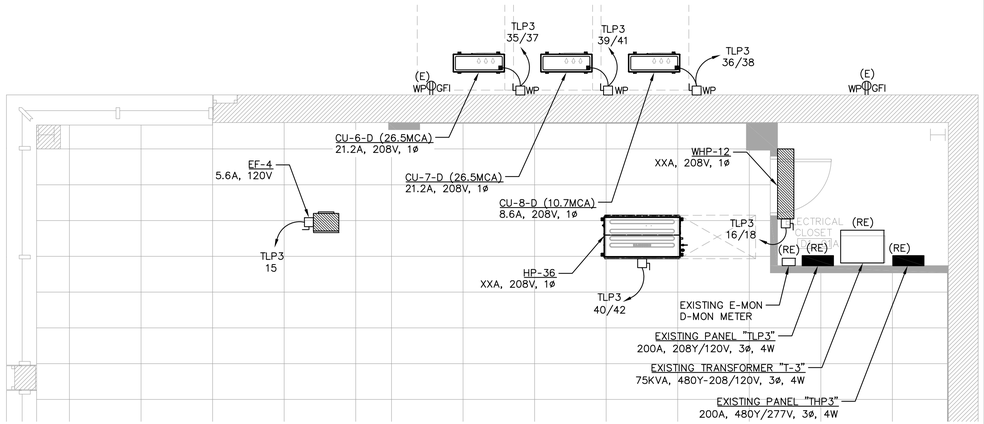
DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: EJT	DRAWING NO. E-1	REVISION	
DATE: 05/22/2020			
PROJECT NO.:			



1 E-2 PARTIAL ELECTRICAL NEW WORK PLAN – BLDG D

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

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



2 E-2 PARTIAL MECH EQUIPMENT POWER NEW WORK PLAN – BLDG D

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

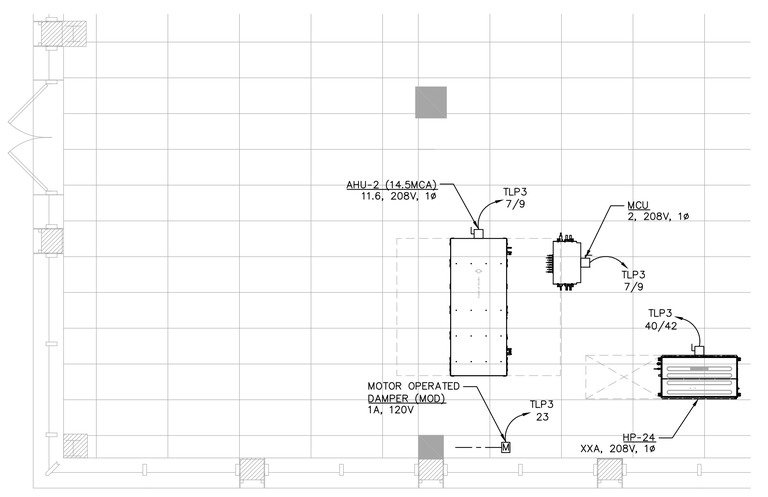
SCALE BAR: 1/4"=1'-0"

LIGHTING GENERAL NOTES:

1. MATCH WITH EXISTING ZR24 2'x4' LIGHTS HIGH EFFICIENCY LED TROFFER FROM CREE LIGHTING. MATCH FINISHES AND KELVIN TEMPERATURE WITH EXISTING LIGHTS. TYPICAL FOR ALL NEW LT-1 2'x4' LIGHTING.
2. MATCH WITH EXISTING ZR22 2'x2' LIGHTS HIGH EFFICIENCY LED TROFFER FROM CREE LIGHTING. MATCH FINISHES AND KELVIN TEMPERATURE WITH EXISTING LIGHTS. TYPICAL FOR ALL NEW LT-2 2'x2' LIGHTING.
3. OWNER/ARCHITECT PROVIDED SPEC FOR LT-3 LIGHTS.
4. MATCH WITH EXISTING EMERGENCY BATTERY PACKS. TYPICAL FOR ALL NEW E1 EMERGENCY BATTERY PACKS.
5. MATCH WITH EXISTING EXIT SIGNS. TYPICAL FOR ALL NEW X EXIT SIGNS.

NEW WORK KEYED NOTES:

1. E.C. SHALL PROVIDE PULL BOX-SIZE AS REQIRED ABOVE CEILING AND SAFE OFF ALL EXISTING BRANCH CIRCUITS FROM EXISTING PANELS BEFORE RELOCATING THE PANELS. EXTEND ALL EXISTING BRANCH CIRCUITS FROM PULL BOX TO NEW PANELS LOCATION.
2. E.C. SHALL PROVIDE PULL BOX-SIZE AS REQIRED ABOVE CEILING BEFORE RELOCATING PANEL "THP3" TO NEW LOCATION. EXTEND EXISTING 480V FEEDER AND CONDUIT AS REQUIRED TO NEW PANEL LOCATION.



3 E-2 PARTIAL MECH EQUIPMENT POWER NEW WORK PLAN – BLDG D

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

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

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Professional Engineer
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CLIENT:

YEZZI ASSOCIATES

MEP ENGINEER:

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No.	Date	Description
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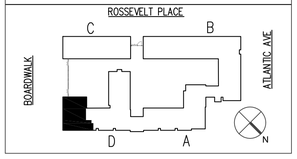
REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

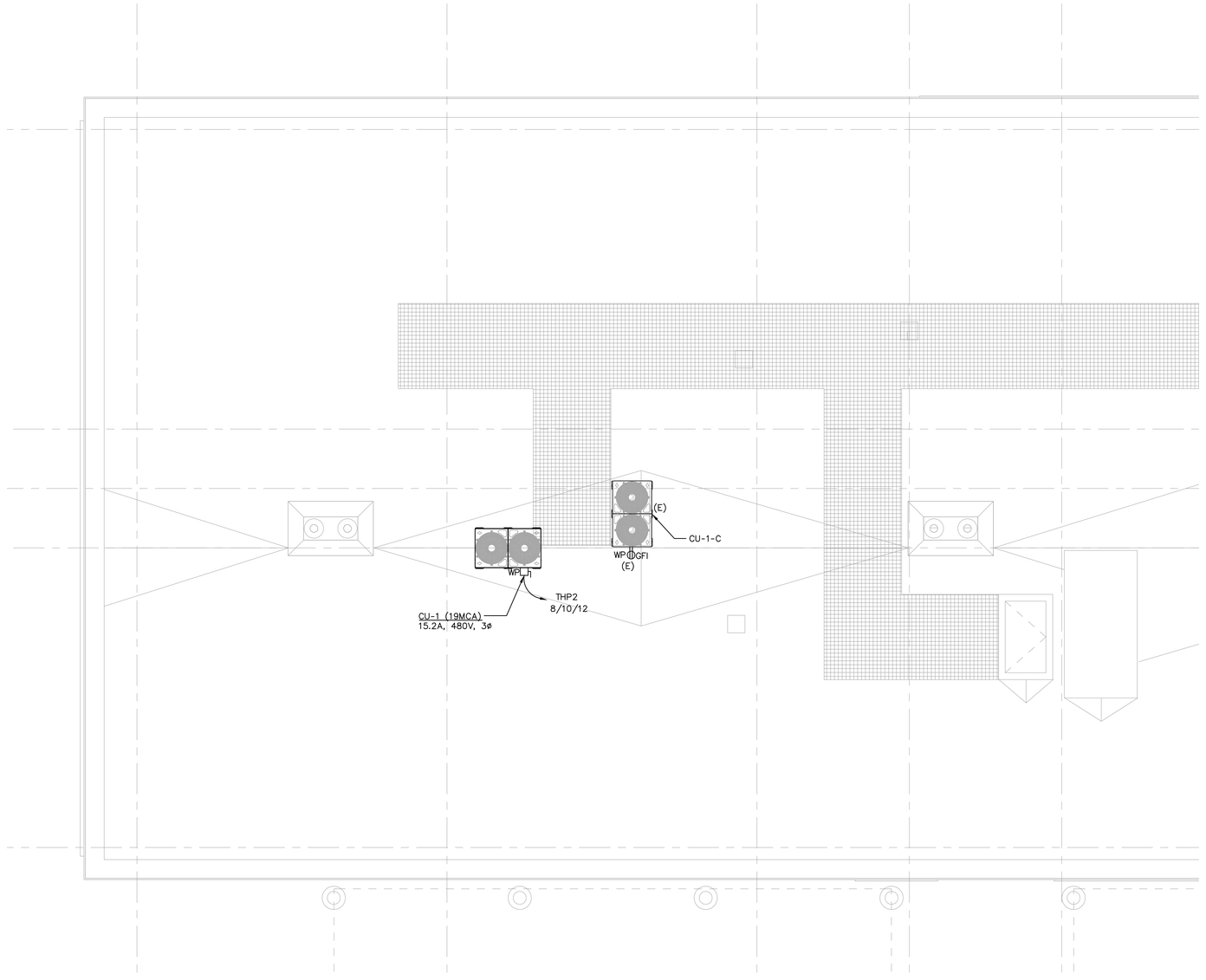
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL ELECTRICAL
NEW WORK PLAN -
BUILDING D - ALTERNATE BID

SHEET: 42 OF 49

DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: EJT	DRAWING NO. E-2		REVISION
DATE: 05/22/2020			
PROJECT NO.:			



1 / E—3 PARTIAL ELECTRICAL ROOF NEW WORK PLAN — BLDG C

SCALE: 1/4" = 1'—0"

0' 1' 2' 4' 8'

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

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Professional Engineer
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YEZZI ASSOCIATES

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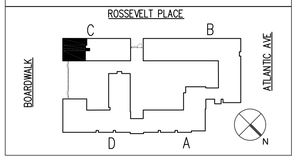
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

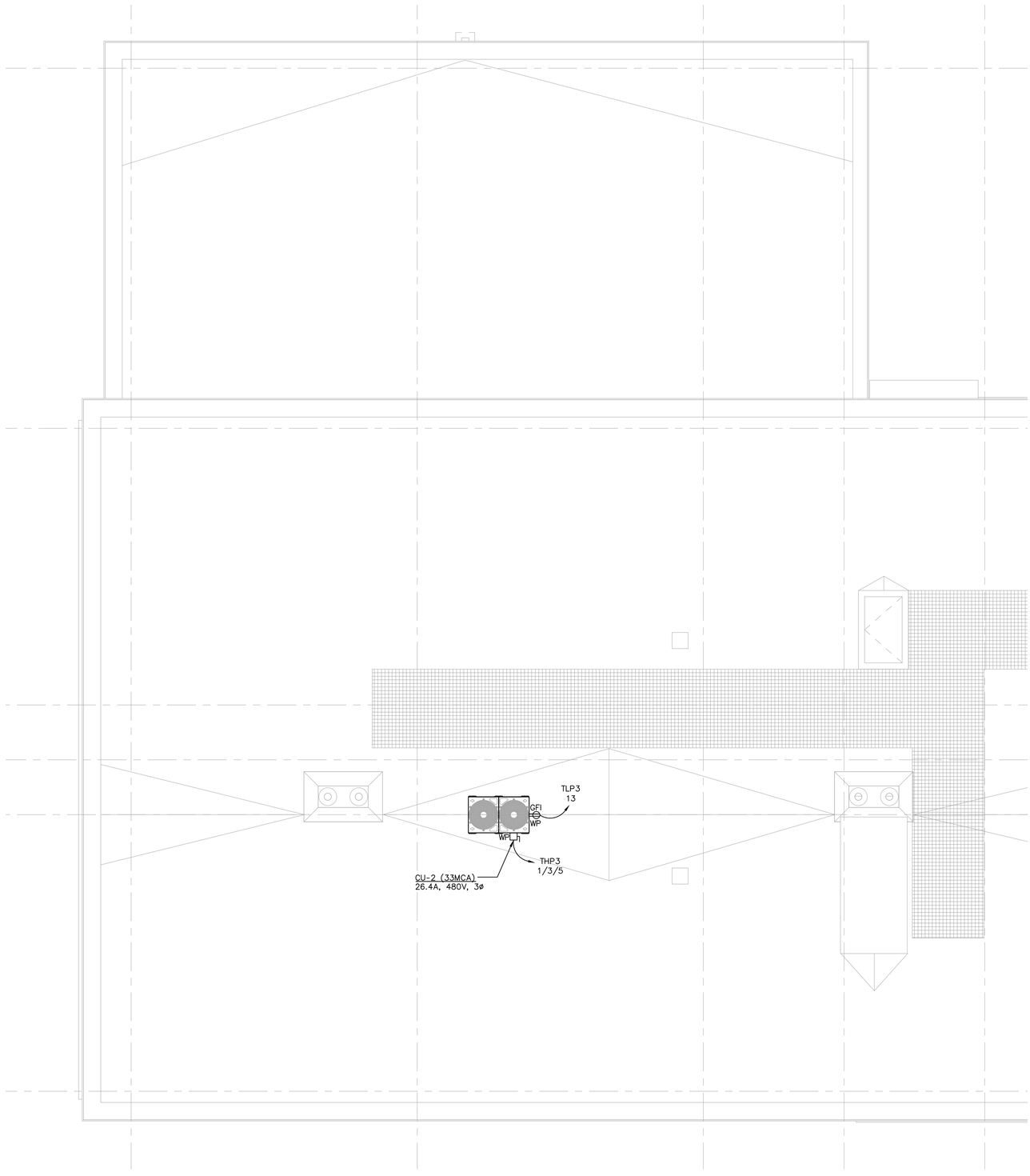
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL ELECTRICAL
ROOF NEW WORK PLAN -
BUILDING C - BASE BID

SHEET: 43 OF 49

DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: EJT	DRAWING NO. E-3	REVISION
DATE: 05/22/2020		
PROJECT NO.:		



1 / E-4 PARTIAL ELECTRICAL ROOF NEW WORK PLAN – BLDG D
SCALE: 1/4" = 1'-0"

0' 1' 2' 4' 8'
SCALE BAR: 1/4"=1'-0"

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Professional Engineer
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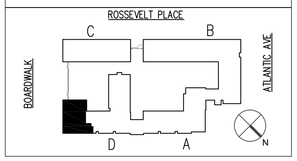
REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL ELECTRICAL
ROOF NEW WORK PLAN -
BUILDING D - ALTERNATE BID

SHEET: 44 OF 49

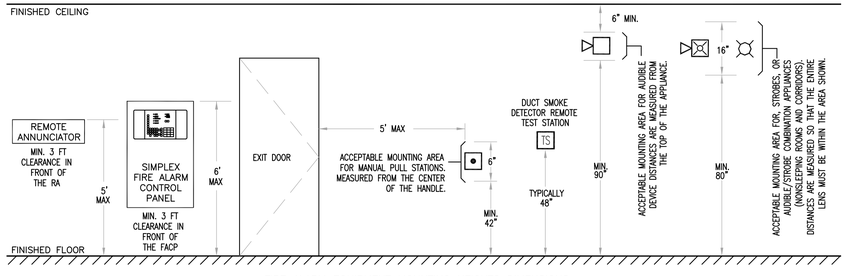
DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: EJT	DRAWING NO. E-4		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

FIRE ALARM GENERAL NOTES

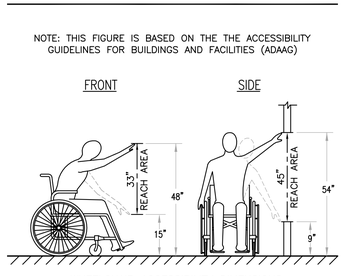
1. ALL ELECTRICAL WORK TO BE INSTALLED IN ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AS ADOPTED BY THE UNIFORM CONSTRUCTION CODE - STATE OF NEW JERSEY AND ANY OTHER PARTY HAVING JURISDICTION.
2. THE FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS AND ANY OTHER PARTY HAVING JURISDICTION, INCLUDING 2015 IBC, 2015 IFC AS REFERENCED IN THE 2015 IBC AND NFPA & ANSI STANDARDS AS REFERENCED BY THE 2015 INTERNATIONAL IBC AND IFC.
3. ALL ELECTRICAL AND FIRE ALARM EQUIPMENT FOR THE PROJECT SHALL BE NEW AND APPROVED BY UNDERWRITERS LABORATORY (U.L) OR ANY OTHER NATIONALLY RECOGNIZED TESTING AGENCY UNLESS NOTED OTHERWISE ON DRAWINGS.
4. ALL NECESSARY PERMITS AND INSPECTIONS SHALL BE PROCURED BY THE CONTRACTOR, AND ALL PERMIT AND INSPECTION FEES PAID BY CONTRACTOR. ALL LICENSES REQUIRED BY CONTRACTOR SHALL BE PROCURED AND PAID BY THE CONTRACTOR. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM THE APPROVED INSPECTION AGENCY.
5. UPON COMPLETION OF THE WORK, THE ENTIRE WIRING SYSTEM SHALL BE FREE FROM GROUNDS, SHORT CIRCUITS, OPENS, OVERLOADS AND IMPROPER VOLTAGES.
6. PRIOR TO FINAL ACCEPTANCE OF THE WORK, A WRITTEN STATEMENT SHALL BE SUBMITTED TO THE OWNER GUARANTEEING ALL EQUIPMENT AND SYSTEMS AGAINST DEFECTIVE MATERIAL AND WORKMANSHIP FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. UPON NOTICE ALL DEFECTIVE EQUIPMENT, MATERIALS AND SYSTEMS SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER.
7. THIS SET OF DRAWINGS IS DIAGRAMMATIC IN NATURE AND INDICATES THE GENERAL ARRANGEMENT OF THE SYSTEM AND APPROXIMATE LOCATIONS OF THE EQUIPMENT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THAT THERE IS ADEQUATE SPACE AT THE LOCATIONS INDICATED FOR ALL EQUIPMENT PRIOR TO INSTALLATION OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
8. FIRE ALARM CONTRACTOR SHALL SECURE SHOP DRAWINGS FROM OTHER CONTRACTORS AND VERIFY EXACT ELECTRICAL CHARACTERISTICS OF EQUIPMENT TO BE WIRED PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED BETWEEN THE FIRE ALARM CONTRACT DRAWINGS AND OTHER CONTRACTOR SHOP DRAWINGS, FIRE ALARM CONTRACTOR IS TO IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER. FAILURE TO PERFORM THIS DUTY WILL NOT RELIEVE THE FIRE ALARM CONTRACTOR OF THE RESPONSIBILITY TO CORRECT WIRING DEFICIENCIES AT NO ADDITIONAL EXPENSE TO THE OWNER.
9. ALL DEVICES OR EQUIPMENT SHOWN IN SYMBOL FORM SHALL BE WIRED TO ITS RESPECTIVE PANEL.
10. ALL WIRING, CONNECTIONS AND DEVICES SHALL BE PROVIDED TO COMPLY WITH THE GROUNDING REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE DRAWINGS UNLESS NOTED OTHERWISE. ALL EXPOSED NON-CURRENT CARRYING ELECTRICAL EQUIPMENT METALLIC PARTS, RACEWAY SYSTEMS AND WIRING SYSTEM GROUNDING CONDUCTORS SYSTEM SHALL BE GROUNDED.
11. THE FIRE ALARM CONTRACTOR SHALL PAINT RED IN COLOR ALL JUNCTION BOXES AND CONDUIT ASSOCIATED WITH THE FIRE ALARM SYSTEM. LABEL WITH PERMANENT MARKER ALL JUNCTION BOXES AND OUTLET BOXES WITH CIRCUIT NUMBER, PANEL IDENTIFICATION OR ADDRESS AS REQUIRED.
12. ALL CUTTING AND PATCHING REQUIRED FOR THE FIRE ALARM WORK SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.
13. ALL HOLES OR VOIDS CREATED TO ROUTE CONDUIT THROUGH FIRE RATED FLOORS AND WALLS SHALL BE SEALED WITH AN INTUMESCENT MATERIAL CAPABLE OF EXPANDING UP TO 8 TO 10 TIMES WHEN EXPOSED TO A TEMPERATURE OF 250 DEGREES FAHRENHEIT AND ABOVE. ACCEPTABLE SEALING MATERIAL SUCH AS 3M FIRE BARRIER CAULK, PUTTY, STRIP AND SHEET FORM SHALL HAVE I.C.B.O. AND BOCA APPROVED RATING OF 3 HOURS PER ASTM E-814 (U.L. 1479) AS PER NEC ART. 300-21.
14. A COMPLETE SET OF "AS-BUILT" DRAWINGS, (1) SET IN HARD COPY REPRODUCIBLE AND (1) SET OF ELECTRONIC FILES PRODUCED IN PDF FORMAT, SHALL BE FURNISHED TO THE OWNER AND ENGINEER UPON PROJECT COMPLETION.
15. ALL EQUIPMENT, DEVICES AND CIRCUITS SHALL BE LABELED ACCORDING TO OWNER REQUIREMENTS. PRIOR TO LABELING AND IDENTIFICATION OF ALL EQUIPMENT, DEVICES AND CIRCUITS, CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THESE REQUIREMENTS WITH THE OWNER.
16. PRIOR TO CONNECTING ANY LOADS TO PANELBOARDS, THE FIRE ALARM CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO VERIFY THE PANELBOARDS' TOTAL CONNECTED LOADS DO NOT EXCEED THOSE ALLOWED BY THE NATIONAL ELECTRIC CODE AS ADOPTED BY THE STATE OF NEW JERSEY.
17. ALL CIRCUIT BREAKERS TO BE INSTALLED IN PANELBOARDS SHALL BE OF THE SAME MANUFACTURER AND TYPE, WITH AN EQUAL OR GREATER SHORT CIRCUIT RATING MATCHING THE PANELBOARD'S BUSS RATING. ALL CIRCUIT BREAKERS SERVING FIRE ALARM DEVICES SHALL BE PROVIDED A "LOCK-ON" FEATURE.
18. ALL LOW-VOLTAGE FIRE ALARM CABLE SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE. CABLES SHALL NOT BE LAID ON CEILING PANELS.
19. ALL WIRING AND EQUIPMENT INSTALLED IN DUCTS, PLENUMS AND OTHER AIR HANDLING SPACES SHALL CONFORM TO NEC, ARTICLE 300-22.
20. DO NOT INSTALL ANY A.C. CURRENT CARRYING CONDUCTORS IN OR CLOSE TO THE SAME RACEWAY WITH FIRE ALARM SYSTEM CONDUCTORS.
21. ALL DUCT MOUNTED SMOKE OR HEAT DETECTORS SHALL BE FURNISHED AND WIRED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE WIRING OF ALL DUCT MOUNTED DETECTORS TO ENSURE A COMPLETE OPERATING SYSTEM. THE FIRE ALARM CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS FOR THE LOCATIONS OF ALL DUCT MOUNTED DETECTORS. ALL DUCT MOUNTED DETECTORS AND THEIR ASSOCIATED WIRING SHALL CONFORM TO ARTICLE 300-22 OF THE 2014 EDITION OF THE NATIONAL ELECTRIC CODE.
22. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ALL MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE ALL DUCT DETECTOR LOCATIONS AND REQUIREMENTS. DUCT MOUNTED HEAT AND SMOKE DETECTORS SHALL BE WIRED AND INTERCONNECTED INTO THE FACILITY'S EXISTING FIRE ALARM SYSTEM, AND ALSO WIRED INTO THE FACILITY'S EXISTING BUILDING MANAGEMENT SYSTEM (BMS) FOR FAN SHUT-DOWN/CONTROL. COORDINATE WITH CONTROLS CONTRACTOR THE WIRING REQUIREMENTS FOR ALL DUCT DETECTORS. EACH DUCT SMOKE DETECTOR SHALL HAVE A REMOTE ALARM INDICATOR WITH KEY TEST SWITCH, INSTALLED AND WIRED. EACH AIR HANDLING SYSTEM GREATER THAN 2000 CFM IN CAPACITY SHALL BE EQUIPPED WITH RETURN AIR DUCT SMOKE DETECTORS.
23. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ALL FIRE PROTECTION DRAWINGS AND COORDINATE LOCATIONS AND QUANTITIES OF ALL TAMPER SWITCHES, FLOW SWITCHES, PRESSURE SWITCHES, ETC., AND THEIR FIRE ALARM/WIRING REQUIREMENTS. ALL FIRE PROTECTION DEVICES SHALL BE WIRED AND INTERCONNECTED INTO THE FACILITY'S EXISTING FIRE ALARM SYSTEM.
24. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP IS COMPLETE AND FINAL. DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED.
25. EACH FIRE ALARM SYSTEM CIRCUIT SHALL NOT EXCEED 70% OF ITS RATED CAPACITY.
26. CONNECTED LOAD OF THE FIRE ALARM SYSTEM'S BATTERIES SHALL NOT EXCEED 70% OF ITS RATED CAPACITY.
27. ALLOW FOR MINIMUM OF 25% EXPANSION OF THE FIRE ALARM SYSTEM.
28. ALL FIRE ALARM CABLING SHALL BE "FPLP" RATED OR RUN IN A MINIMUM 3/4" CONDUIT. ALL EXPOSED LINE AND LOW-VOLTAGE CABLE SHALL BE INSTALLED IN RIGID GALVANIZED STEEL CONDUIT.
29. ALL FIRE ALARM DEVICES SHALL BE GRAPHICALLY IDENTIFIED ON THE FACILITY'S EXISTING FIRE ALARM SYSTEM'S GRAPHICS WORKSTATION.
30. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE, AT HIS OWN EXPENSE, TO HAVE PREPARED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER, FIRE ALARM SYSTEM DESIGN, WITH SHOP DRAWINGS, FOR THIS PROJECT. FIRE ALARM SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY, AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE ARCHITECT, ENGINEER AND APPROVING LOCAL CONSTRUCTION OFFICIALS PRIOR TO PERFORMANCE OF ANY WORK.
31. ACTUATION OF ANY ALARM DEVICES IN THE BUILDING SHALL ACTIVATE AN ALARM SIGNAL AT THE FACILITY'S FIRE ALARM CONTROL PANEL, REMOTE FIRE ALARM ANNUNCIATOR PANELS AND THE FIRE ALARM GRAPHIC WORKSTATION.
32. ALL WIRING SHALL COMPLY WITH PROJECT SPECIFICATIONS, 2014 NEC, 2013 NFPA 72, 2015 IBC, ADAAG, UL 1971, AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION. ALL EXPOSED WIRING OR WIRING INSTALLED IN LOCATIONS SUBJECT TO DAMAGE SHALL BE INSTALLED IN METAL RACEWAY PAINTED RED. ALL WIRING AND RACEWAYS SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER.
33. ALL WIRE AND CABLE SHALL HAVE A WIRE MARKER ON EACH END, OR EQUAL. ALL MARKERS SHALL BE TYPED. SHIELDS ON ALL SHIELDED CABLE SHALL BE CONTINUOUS, GROUNDED AT THE FIRE ALARM CONTROL PANEL ONLY, AND ISOLATED FROM GROUND ELSEWHERE.
34. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING PATCHING AND PAINTING REQUIRED FOR COMPLETE FIRE ALARM SYSTEM INSTALLATION.
35. MOUNTING FOR ALL DEVICES SHALL COMPLY WITH ALL ADOPTED NEW JERSEY STANDARDS LISTED IN THE IBC, NFPA 90A, NFPA 72, NEC, AND ADAAG.
36. FOR CONDUIT APPLICATIONS, USE ELECTRICAL METALLIC TUBING (EMT) AT ALL LOCATIONS INDOORS AND SCHEDULE 80 PVC CONDUIT OUTDOORS. ALL CONDUIT SIZE SHALL BE 3/4" MINIMUM.
37. FIRE ALARM CONTRACTOR SHALL REPAIR/PATCH AND /OR REPAINT TO MATCH ADJACENT AREAS, ANY AREAS DAMAGED BY WORK OF THIS CONTRACT.
38. THE FIRE ALARM VENDOR MUST CALCULATE THE NOTIFICATION APPLIANCES CANDELA AND dB RATINGS, AND DESIGNATE THEM ON THE SHOP DRAWINGS. ALL STROBE AND HORN SETTINGS MUST COMPLY WITH NEW JERSEY UCC AND NFPA 72 REQUIREMENTS.
39. ALL FIRE ALARM WORK REQUIRED FOR AIR HANDLING UNIT AUTOMATIC SHUTDOWNS (UPON A DETECTION OF SMOKE BY AIR HANDLING UNIT'S DUCT SMOKE DETECTORS) SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. ALL MECHANICAL CONTROL WORK REQUIRED FOR AIR HANDLING UNIT AUTOMATIC SHUTDOWNS (UPON A DETECTION OF SMOKE BY AIR HANDLING UNIT'S DUCT SMOKE DETECTORS) SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
40. ACCEPTANCE TESTING MUST BE PERFORMED IN ACCORDANCE WITH NEW JERSEY NJUCC AND 2013 NFPA 72 AS ADOPTED BY THE STATE OF NEW JERSEY. CONTRACTOR SHALL SUBMIT NEW JERSEY APPROVED ACCEPTANCE TESTING REPORTS TO OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION.
41. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PROGRAMMING NECESSARY FOR THE FACILITY'S MODIFIED FIRE ALARM SYSTEM, AND SHALL BE PERFORMED BY A TECHNICIAN CERTIFIED BY THE FIRE ALARM SYSTEM'S MANUFACTURER TO PERFORM THIS WORK. SUBMIT AS PART OF THE FIRE ALARM SHOP DRAWING ALL FIRE ALARM TECHNICIAN'S MANUFACTURER CERTIFICATIONS.
42. UPON COMPLETION OF FINAL TESTING, THE FIRE ALARM SYSTEM MANUFACTURER SHALL SUBMIT ELECTRONIC AND HARD COPY SETS OF RECORD DRAWINGS DETAILING AS-BUILT CIRCUITING AND INCORPORATING ALL FIELD AND DESIGN DIRECTIVES GIVEN THROUGH OUT THE PROJECT.

FIRE ALARM LEGEND

1 PP-1	HOME RUN ARROW INDICATES PANEL AND CIRCUIT NUMBER
F	FIRE ALARM MANUAL PULL STATION
F	FIRE ALARM COMBINATION AUDIBLE/STROBE
F	FIRE ALARM STROBE
S	SMOKE DETECTOR



FIRE ALARM EQUIPMENT MOUNTING HEIGHTS DIMENSIONS



WHEELCHAIR ACCESSIBILITY DIMENSIONS

HARMONIZED FIRE ALARM EQUIPMENT MOUNTING DISTANCE REQUIREMENTS – IBC/ADA/NFPA/ANSI

NOT TO SCALE--FOR INSTALLER'S REFERENCE

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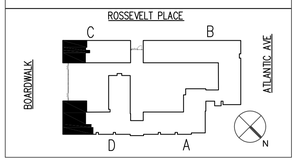
No.	Date	Description
0	6/2/2020	Issued for Bid & DCA Submission

REVISIONS:

KEY PLAN:



PROJECT:

PROPOSED WHITEBOX FITOUT

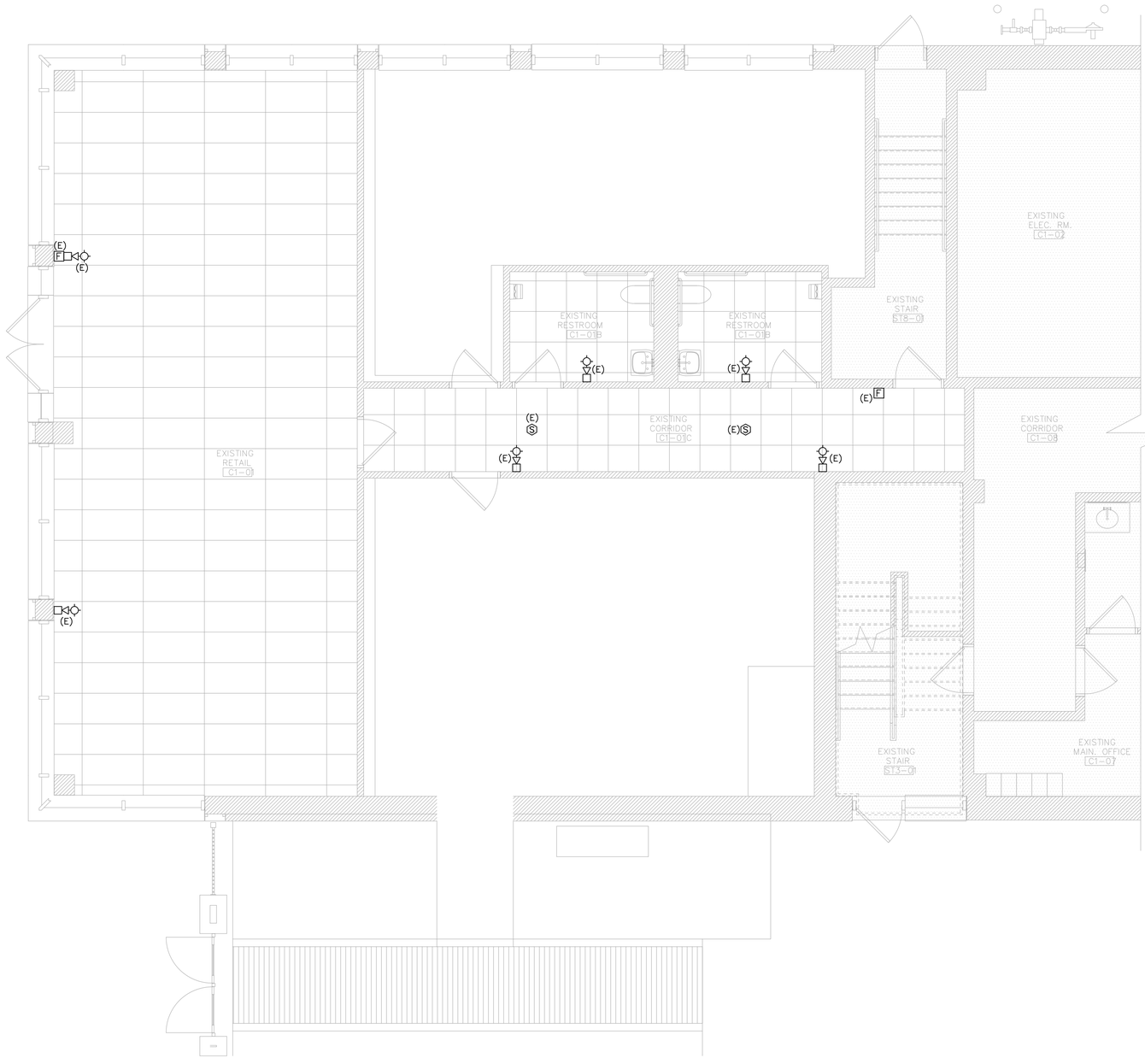
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

FIRE ALARM NOTES, LEGEND, SYMBOLS & ABBREVIATIONS

SHEET: 45 OF 49

DRAWN BY:		SCALE: AS NOTED	DWG SIZE: 36x24
CHECKED BY: EJT		DRAWING NO. FA-0	REVISION
DATE: 05/22/2020			
PROJECT NO.:			



1 FAD-1 PARTIAL FIRE ALARM DEMOLITION PLAN – BLDG C

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

SCALE BAR: 1/4"=1'-0" (0' 1' 2' 4' 8')

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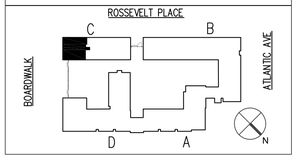


PROJECT:

PROPOSED WHITEBOX FITOUT

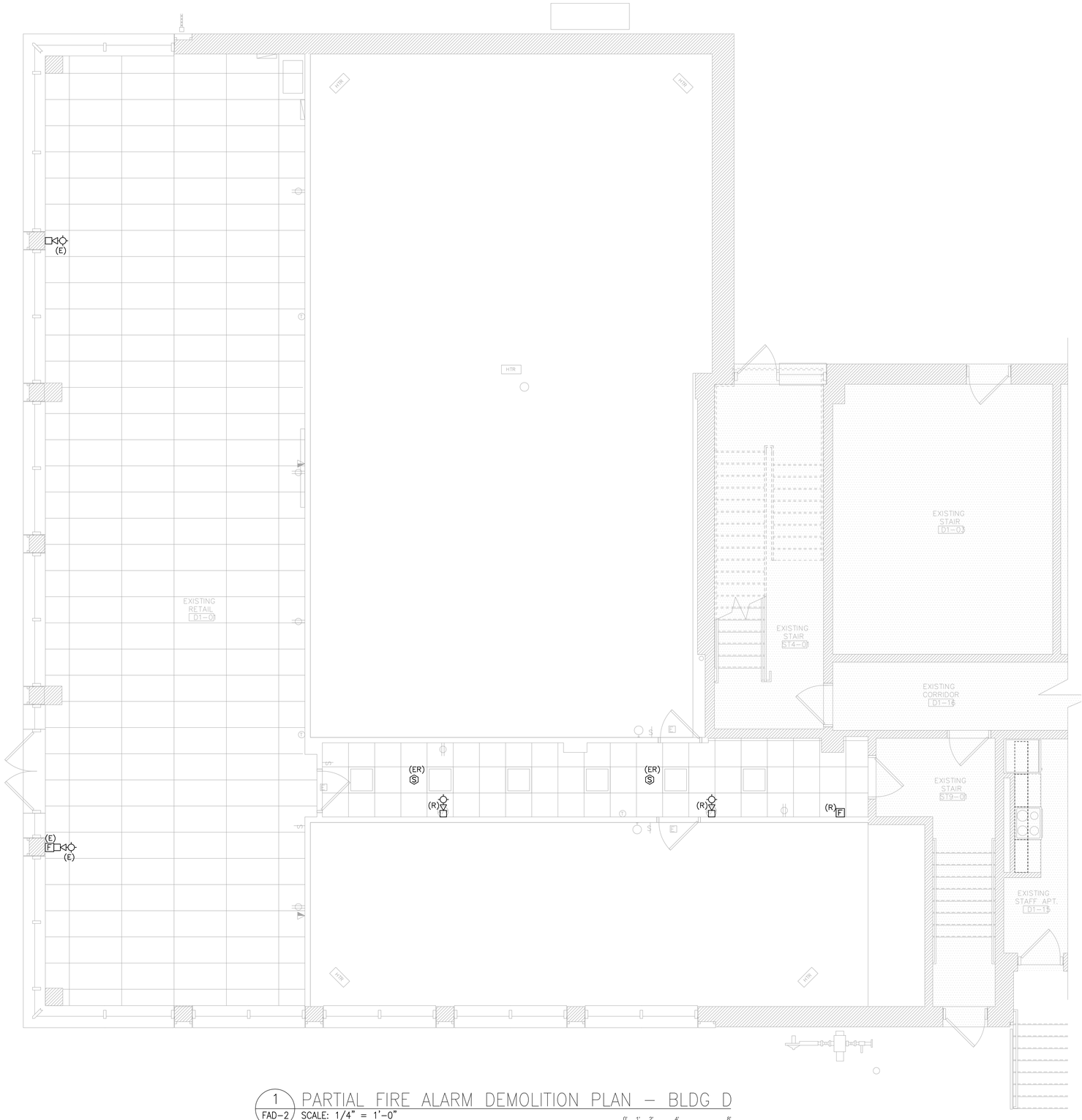
STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL FIRE ALARM
DEMOLITION PLAN -
BUILDING C

SHEET: 46 OF 49

DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: EJT	DRAWING NO. FAD-1		REVISION
DATE: 05/22/2020			
PROJECT NO.:			



1 FAD-2 PARTIAL FIRE ALARM DEMOLITION PLAN – BLDG D

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

0' 1' 2' 4' 8'

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

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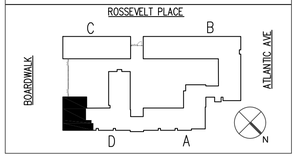


PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

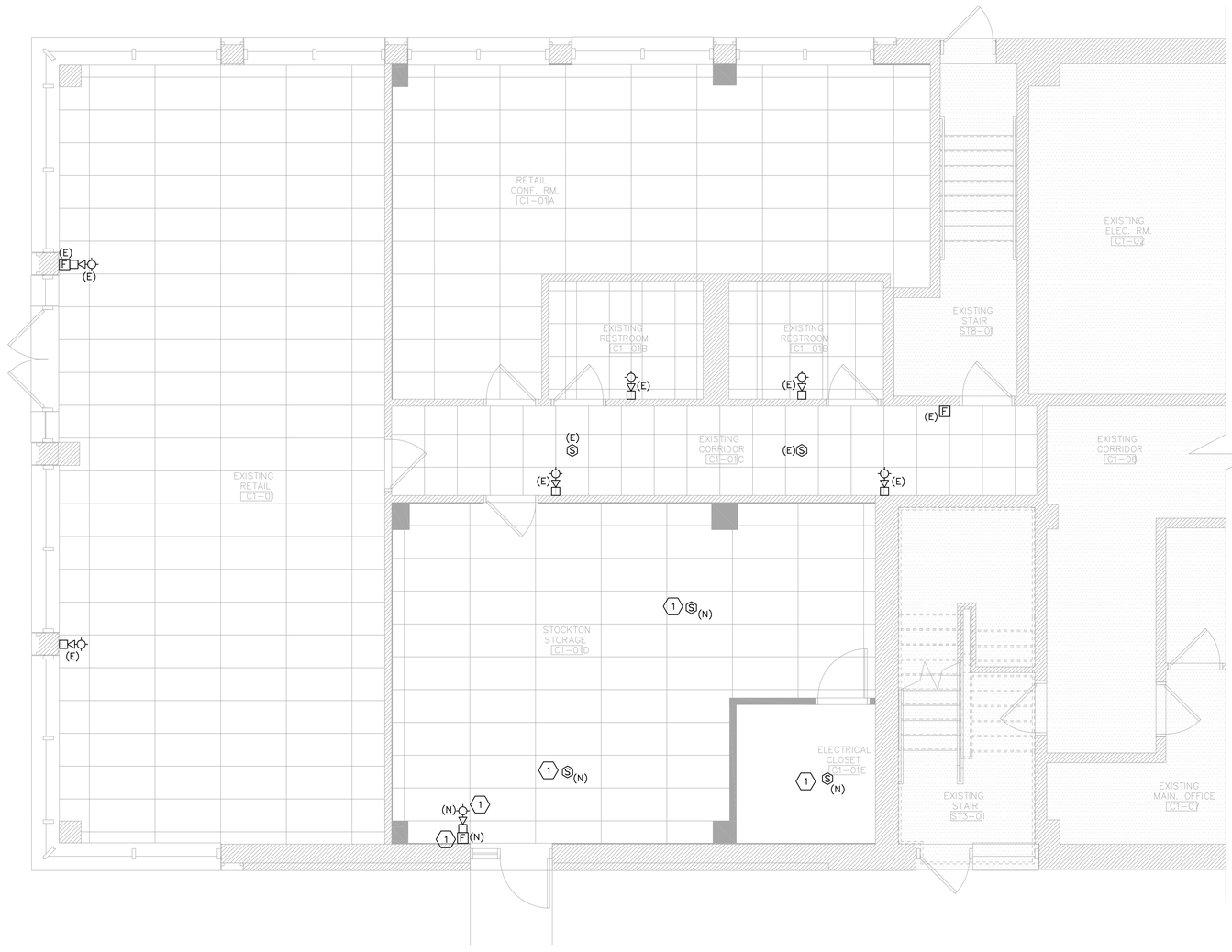
PARTIAL FIRE ALARM
DEMOLITION PLAN -
BUILDING D

SHEET: 47 OF 49

DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: EJT	DRAWING NO. FAD-2		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

FIRE ALARM NEW WORK KEYED NOTES:

1. ALL NEW EQUIPMENT SHALL BE UL LISTED FOR FIRE ALARM SERVICE AND SHALL BE COMPATIBLE WITH THE EXISTING VOICE SYSTEM. E.C. SHALL FURNISH & INSTALL ALL REQUIRED EXPANSION CARDS, AMPS, BATTERIES ETC. PROGRAMMING REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.



1 / FA-1 PARTIAL FIRE ALARM NEW WORK PLAN – BLDG C

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

0' 1' 2' 4' 8'

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

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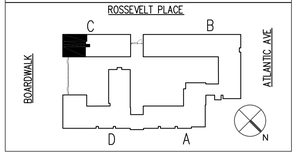

PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL FIRE ALARM
NEW WORK PLAN -
BUILDING C

SHEET: 48 OF 49

DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: EJT	DRAWING NO. FA-1		REVISION
DATE: 05/22/2020			
PROJECT NO.:			

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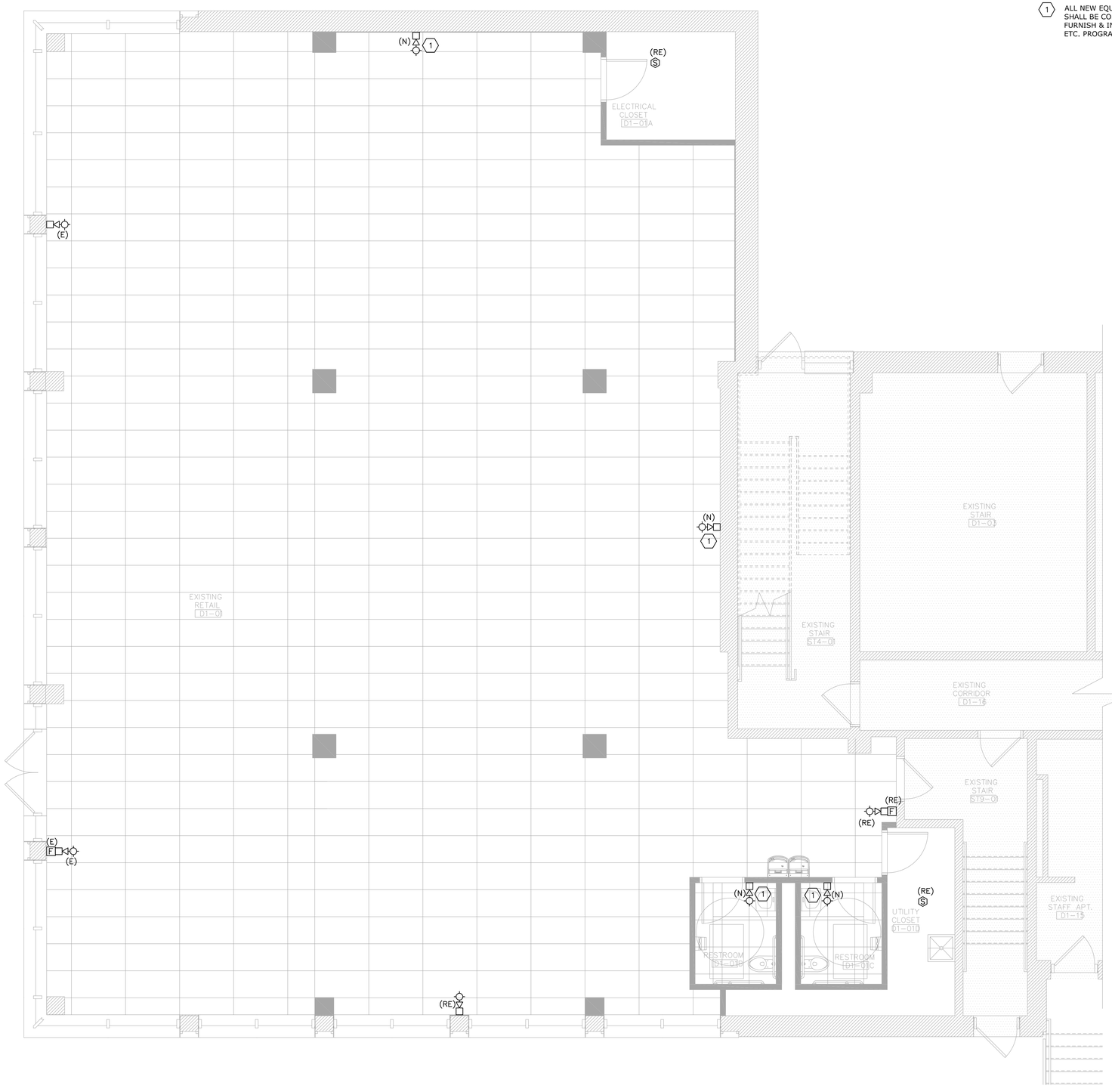

1 / FA-2 PARTIAL FIRE ALARM NEW WORK PLAN – BLDG D

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

0' 1' 2' 4' 8'

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

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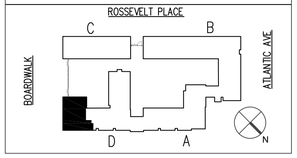

PROJECT:

PROPOSED WHITEBOX FITOUT

STOCKTON ATLANTIC CITY CAMPUS
3701 BOARDWALK
ATLANTIC CITY, NJ 08401

DRAWING TITLE:

PARTIAL FIRE ALARM
NEW WORK PLAN -
BUILDING D

SHEET: 49 OF 49

DRAWN BY: DS	SCALE: AS NOTED	DWG SIZE: 36x24	
CHECKED BY: EJT	DRAWING NO. FA-2		REVISION
DATE: 05/22/2020			
PROJECT NO.:			