ORANGE COUNTY JOHN BRIDGES COMMUNITY CENTER BUILDINGS D & F HVAC REPLACEMENT

ORANGE COUNTY MAYOR

TERESA JACOBS

DISTRICT 1 COMMISSIONER
S. SCOTT BOYD

DISTRICT 2 COMMISSIONER

BRYAN NELSON



DISTRICT 3 COMMISSIONER

PETE CLARKE

DISTRICT 4 COMMISSIONER

JENNIFER THOMPSON

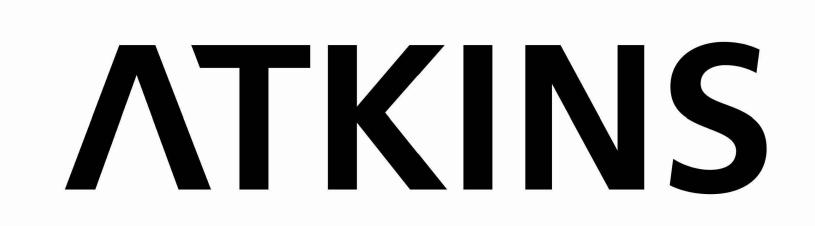
DISTRICT 5 COMMISSIONER

TED B. EDWARDS

DISTRICT 6 COMMISSIONER

VICTORIA P. SIPLIN

BID DOCUMENTS
OCTOBER 25, 2015



482 SOUTH KELLER ROAD ORLANDO, FLORIDA 32810

SHEET NUMBER	SHEET NAME	SCALE	SHEET ISSUED
M-000	COVER SHEET AND SHEET INDEX	No Scale	Yes
M-001	HVAC SYMBOLS LEGEND AND GENERAL NOTES		Yes
M-002	CHILLED WATER PIPING SITE PLAN	No Scale 3/32"=1'-0"	
MD-101	BLDG D HVAC DEMO PLAN	1/4"=1'-0"	Yes
MD-102	BLDG F HVAC DEMO PLAN	1/4"=1'-0"	Yes
M-101	BLDG D HVAC NEW WORK PLAN	1/4"=1'-0"	Yes
M-102	BLDG F HVAC NEW WORK PLAN	1/4"=1'-0"	Yes
M-201	HVAC SECTIONS	1/4"=1'-0"	Yes
M-301	HVAC CONTROLS	No Scale	Yes
M-401	HVAC DETAILS	No Scale	Yes
M-402	HVAC DETAILS	No Scale	No
M-501	HVAC SCHEDULES	No Scale	Yes
E-000	ELECTRICAL SYMBOLS LEGEND AND GENERAL NOTES	No Scale	Yes
E-002	EXISTING ELECTRICAL SITE PLAN	3/32"=1'-0"	Yes
ED-101	BLDG D ELECTRICAL DEMO PLAN	1/4"=1'-0"	Yes
ED-102	BLDG F ELECTRICAL DEMO PLAN	1/4"=1'-0"	Yes
E-101	BLDG D ELECTRICAL NEW PLAN	1/4"=1'-0"	Yes
E-102	BLDG F ELECTRICAL NEW PLAN	1/4"=1'-0"	No
E-501	ELECTRICAL SCHEDULES	No Scale	Yes

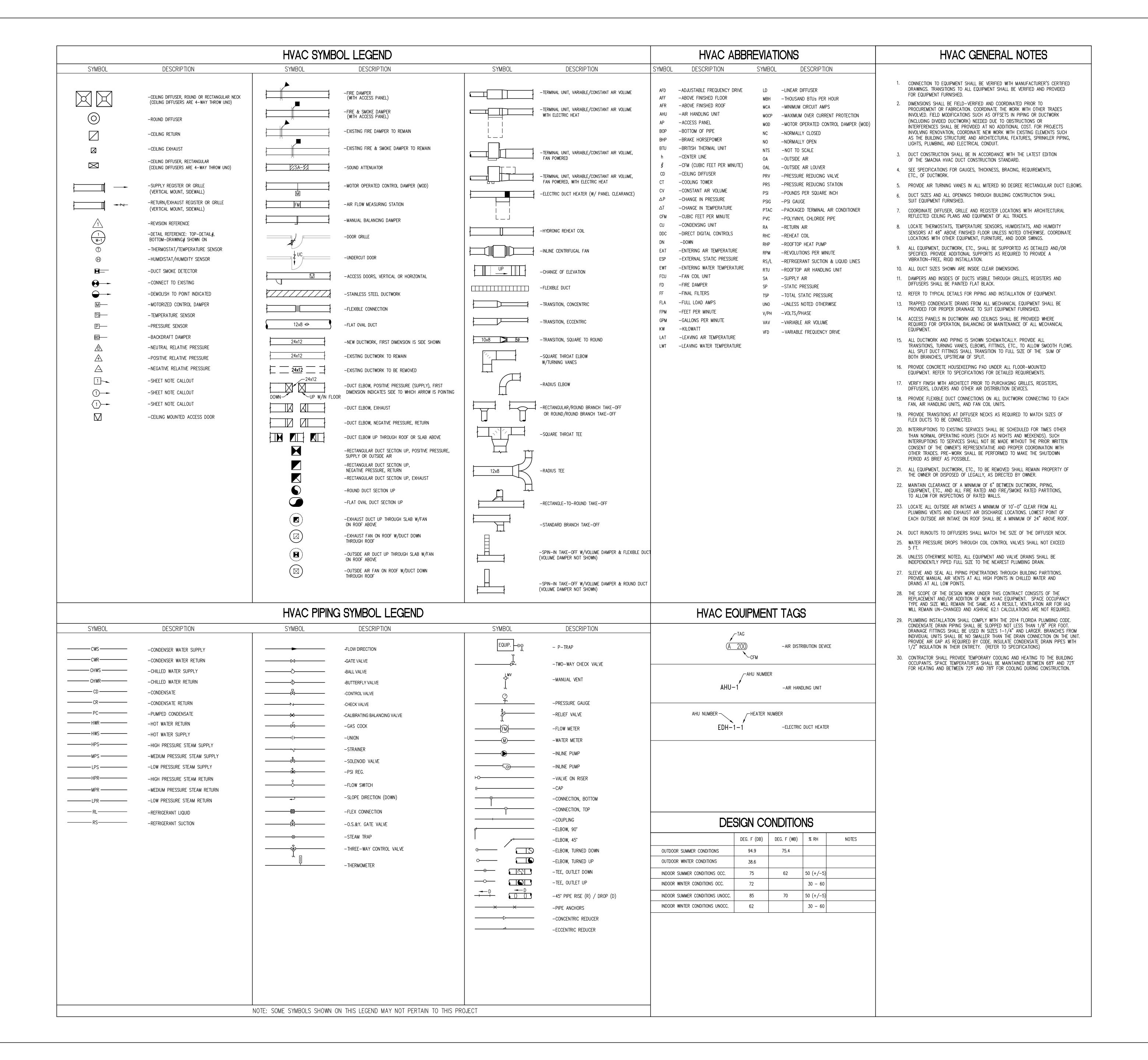
John Bridges Community Center	PROJECT NAME:	483
D & F HVAC Replacement		2 SOUTH KEL ORLANDO, F 407.647.7275
/ 13th Street Apopka, FI 32703		LER ROA

No.	Date	Description	
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ISSUE L	OG		
PROFFS	SIONAL SEALS	<u> </u>	
SHEET			

JOB No. **100045178** Date Issued: OCTOBER 25, 2019

SHEET INFORMATION:

Orange County



482 SOUTH KELLER ROAD ORLANDO, FL 32810 PHONE: 407.647.7275 FAX: 407.740.8958

CONSULTANT:

PROJECT NAME: **(1)**

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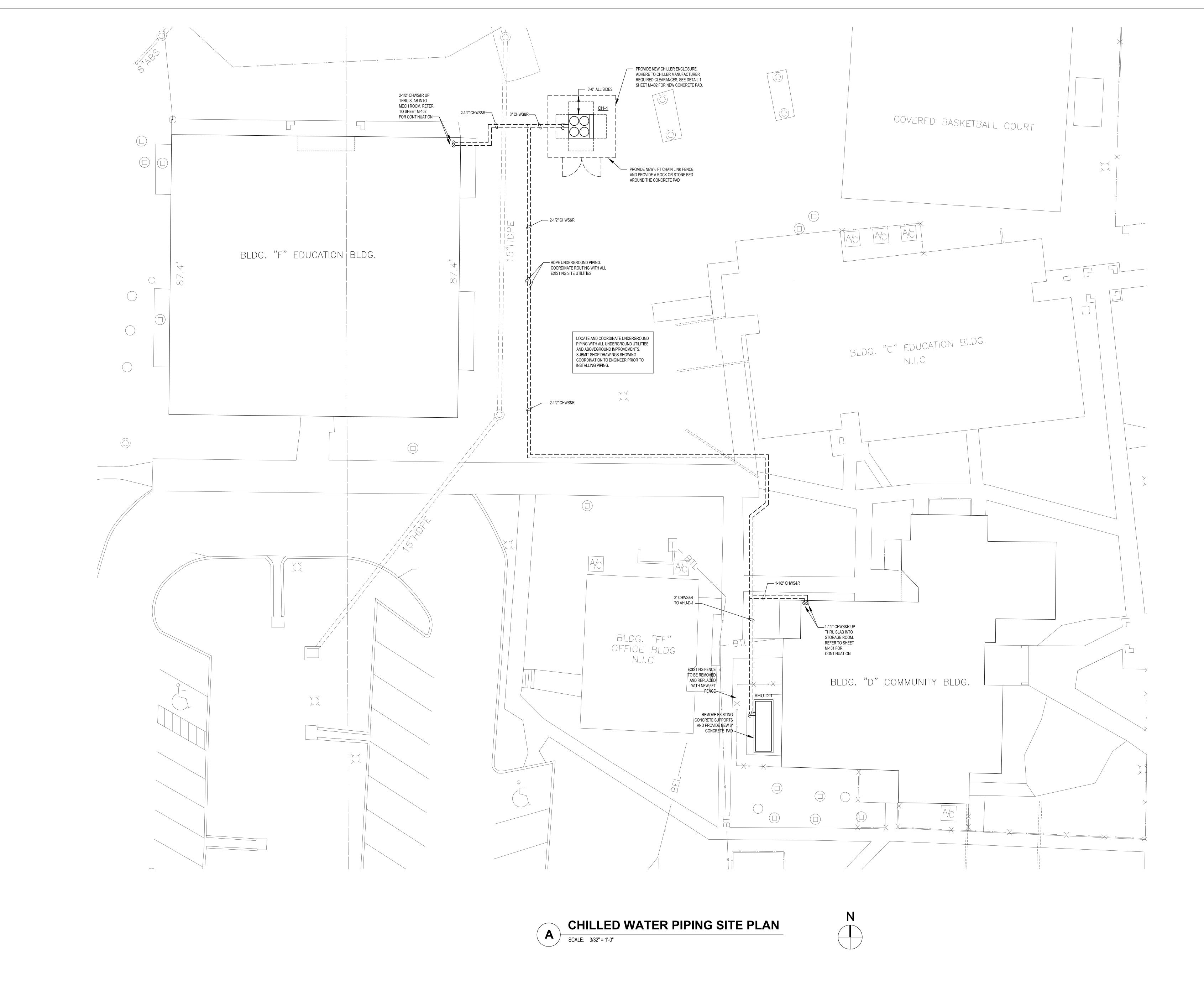
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PROFESS	IONAL SEALS:	

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HVAC SYMBOLS LEGEND AND GENERAL NOTES

SHEET INFORMATION	ON:							
JOB No. 1000	45178	Date Issued:	OCTOBER 25,					
Designed By:	RJB	Sheet Number	r:					
Checked By:	DLH	R A	00-					
QC Review:	TJF	IVI-	-UU					



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CONSULTANT:

PROJECT NAME:

Center

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Buildings

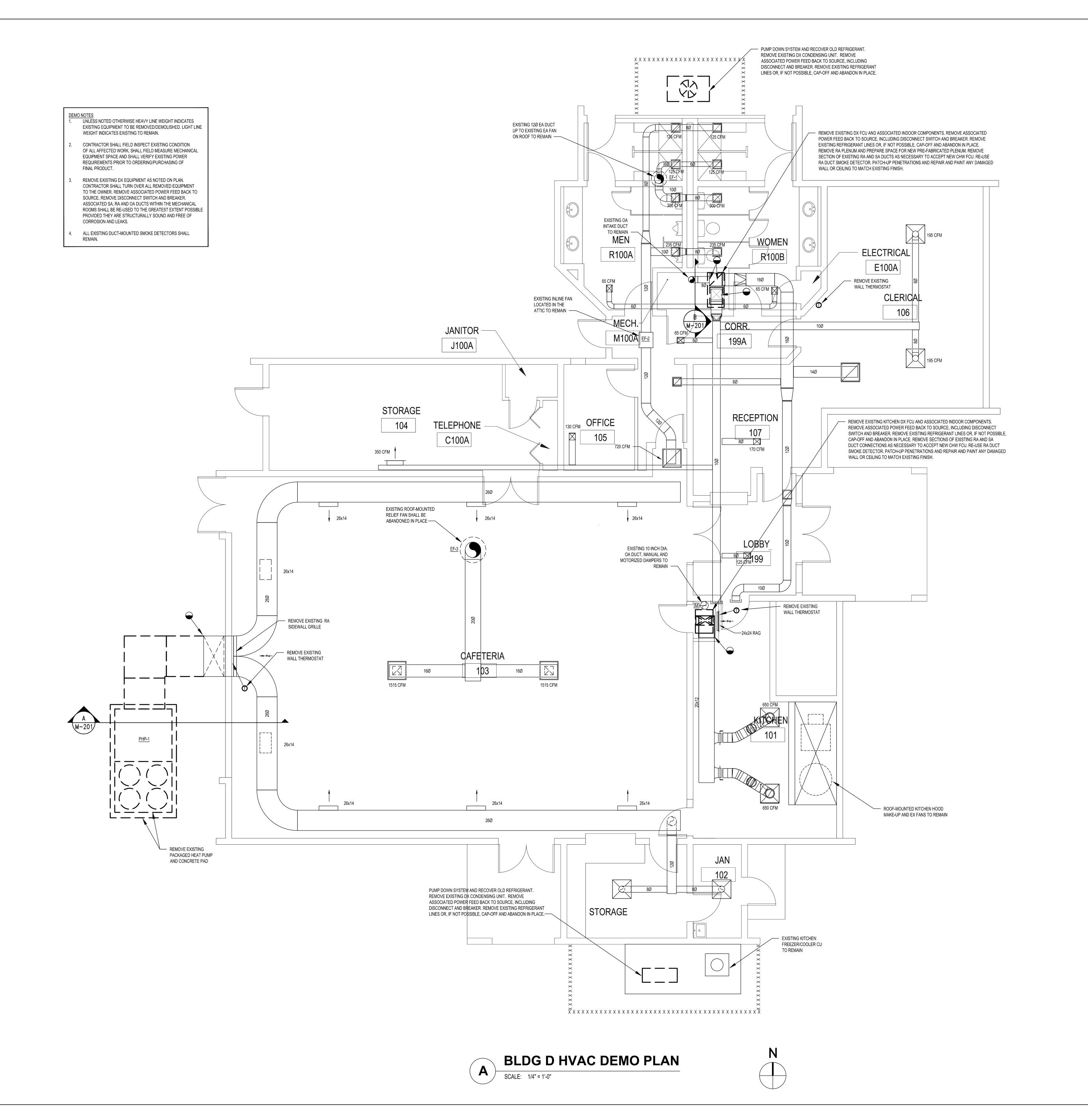
Orange

PROFESSIONAL SEALS:

CHILLED WATER PIPING SITE PLAN

SHEET INFORMATION:

JOB No. **100045178** Date Issued: OCTOBER 25, 2015



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CONSULTANT:

PROJECT NAME:

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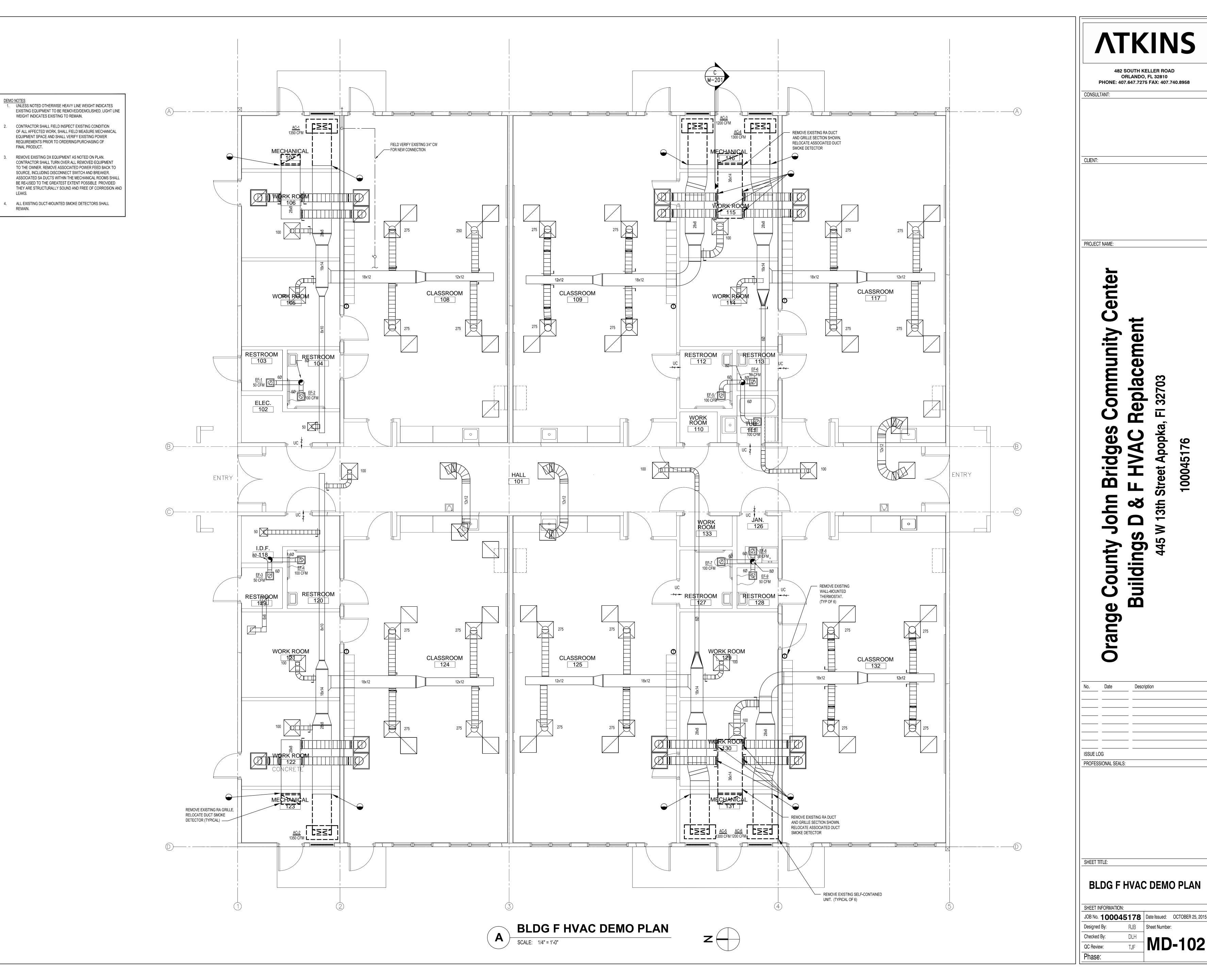
ISSUE LOG PROFESSIONAL SEALS:

BLDG D HVAC DEMO PLAN

SHEET TITLE:

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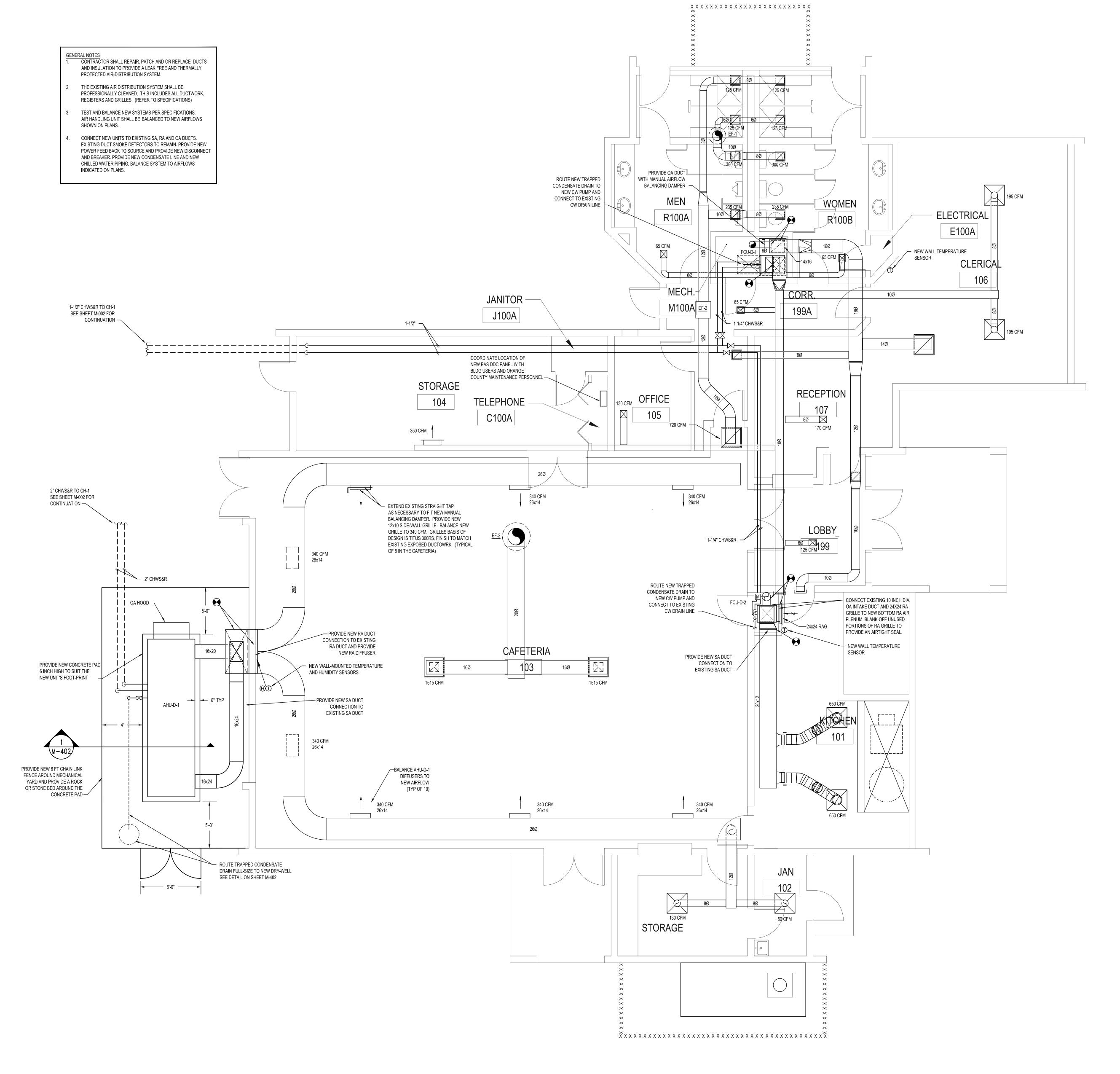
SHEET INFORMATION: JOB No. **100045178** Date Issued: OCTOBER 25, 2015 Phase:

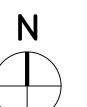


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FINAL PRODUCT.





BLDG D NEW WORK HVAC PLAN

PROJECT NAME: enter eplacemen ommunity ridg County ling

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CONSULTANT:

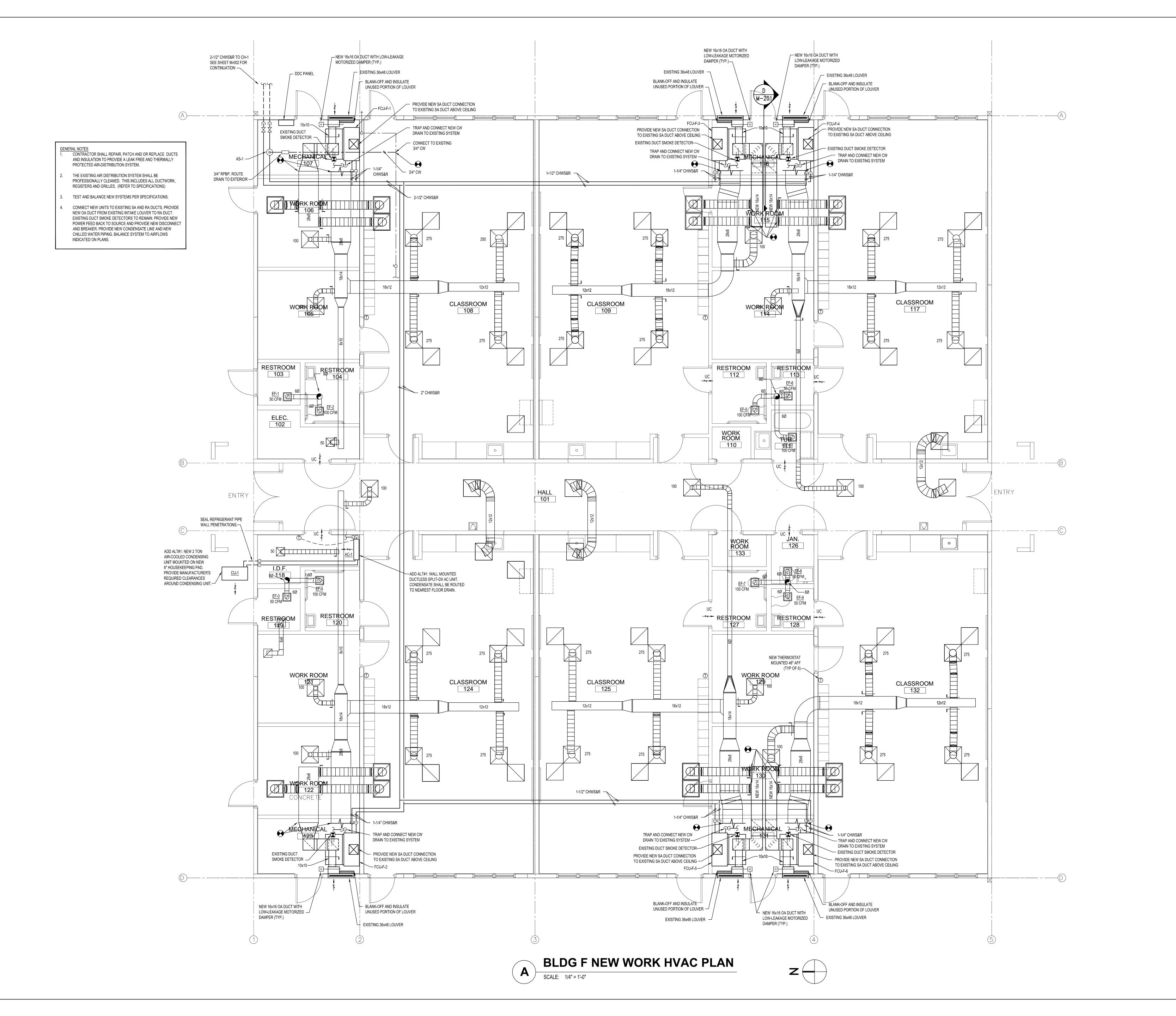
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BLDG D NEW WORK HVAC PLAN

SHEET INFORMATION: JOB No. **100045178** Date Issued: OCTOBER 25, 2015





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ORLANDO, FL 32810

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CONSULTANT:

No. Date Description

ISSUE LOG

PROFESSIONAL SEALS:

SHEET TITLE:

Orange

BLDG F NEW WORK HVAC PLAN

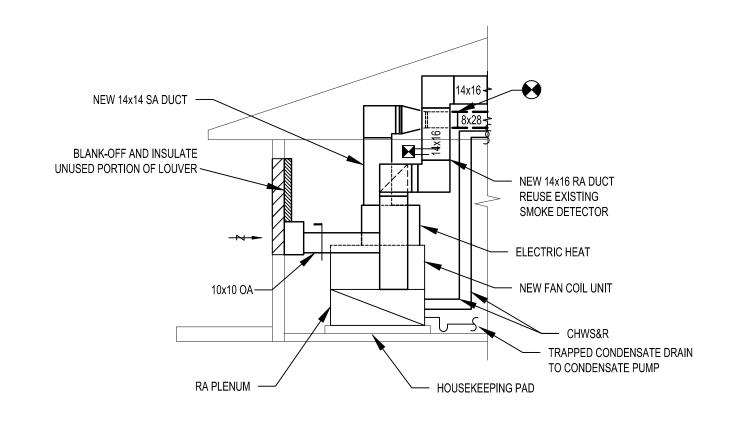
 SHEET INFORMATION:

 JOB No. 100045178
 Date Issued: OCTOBER 25, 2015

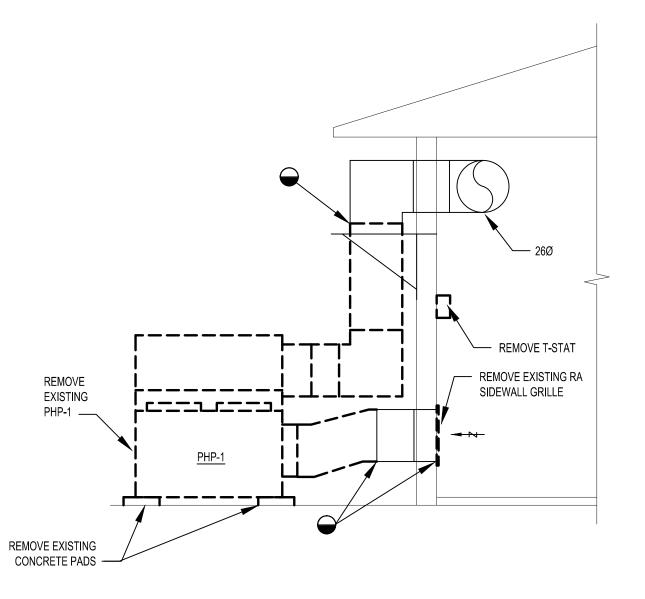
 Designed By:
 RJB

 Checked By:
 DLH

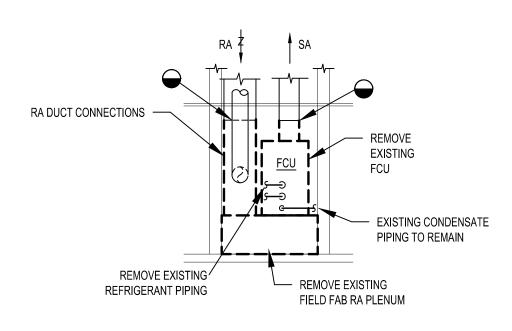
Checked By: DLH
QC Review: TJF
Phase:



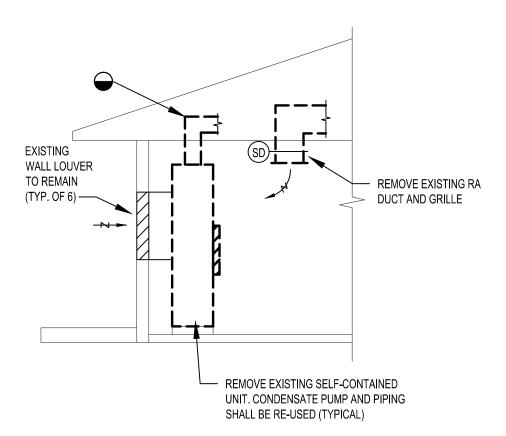
BLDG F TYPICAL MECH. RM. NEW SECTION







BLDG D MECH. RM. M100A DEMO SECTION



BLDG F TYPICAL MECH. RM. DEMO SECTION



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PROJECT NAME:

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Orange

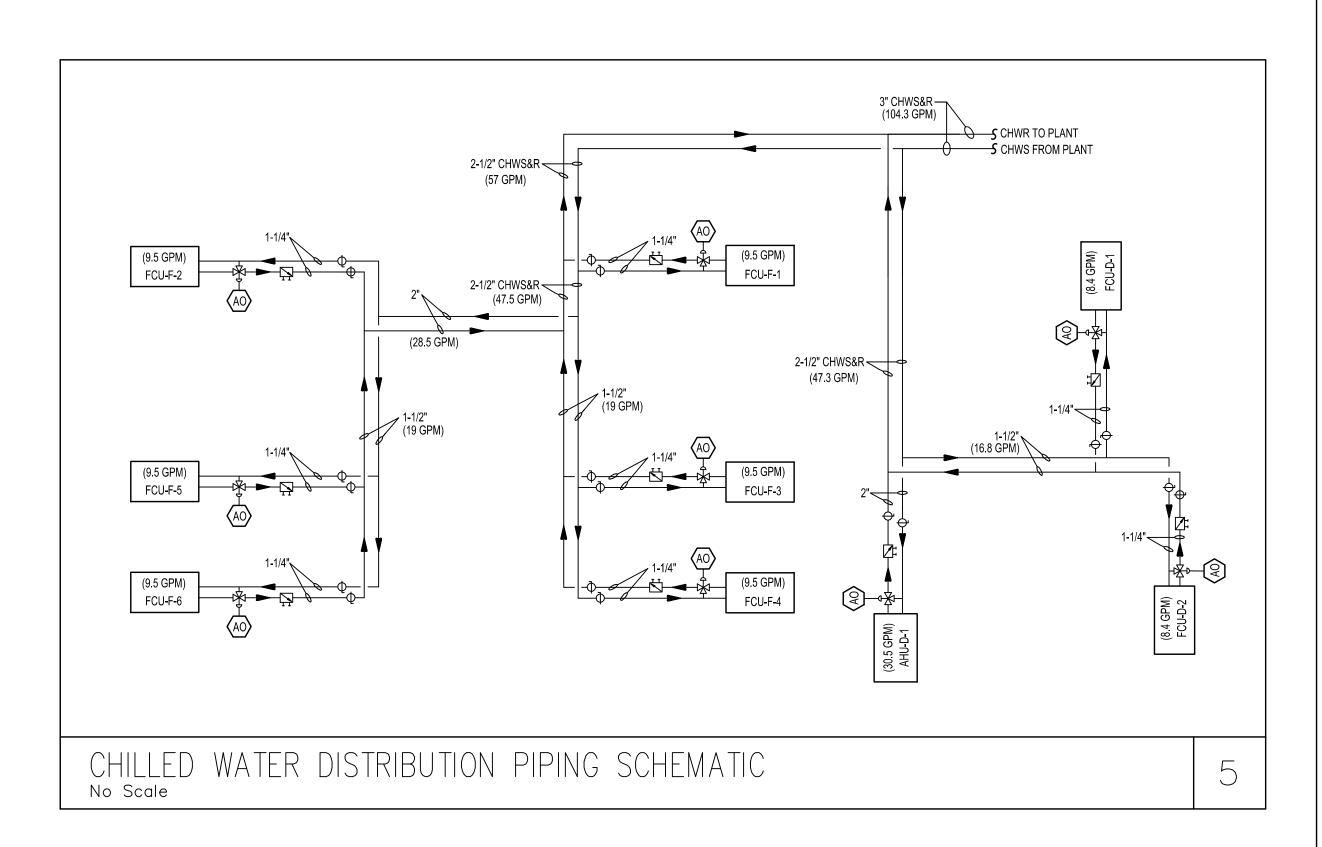
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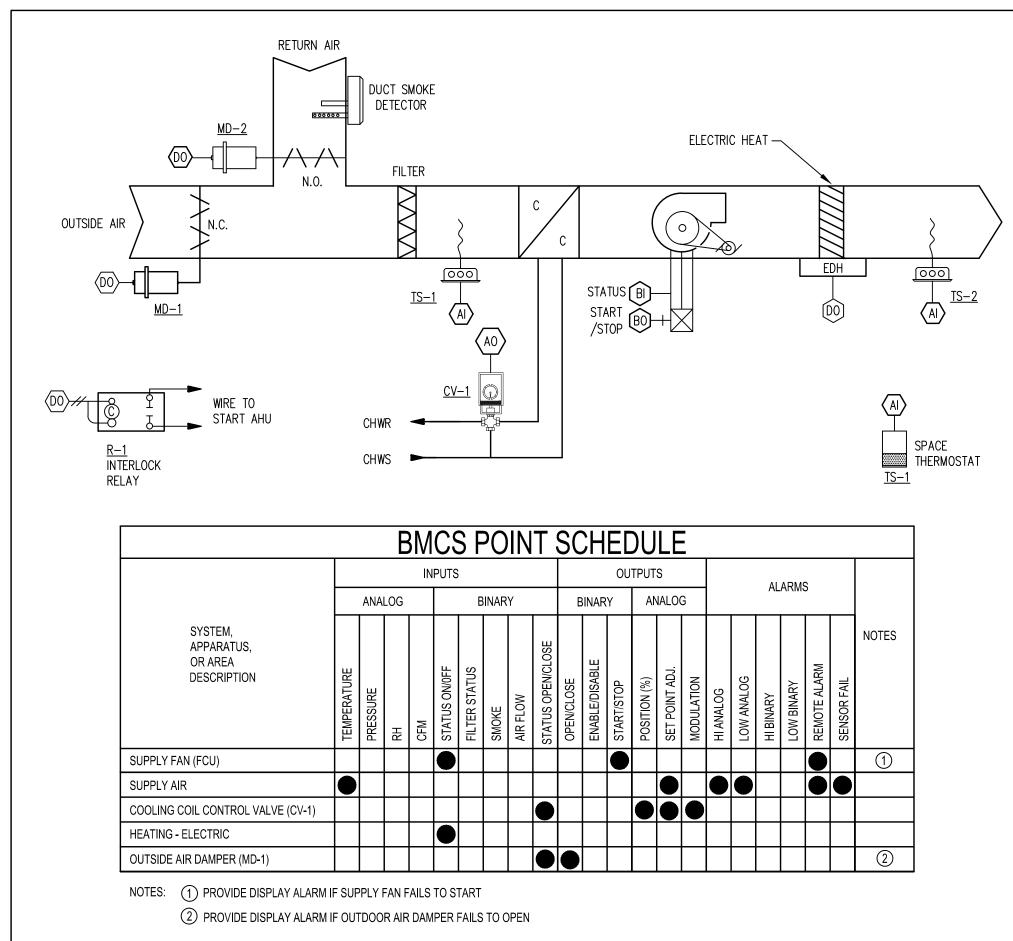
PROFESSIONAL SEALS:

County

HVAC SECTIONS

SHEET INFORMATION: JOB No. **100045178** Date Issued: OCTOBER 25, 2015 **M-201** Phase:





<u>SEQUENCE OF OPERATION - CONSTANT VOLUME FAN COIL UNIT</u>

GENERAL: THE SYSTEM CONSISTS OF A CONSTANT VOLUME SA FAN, CHW COIL WITH A THREE-WAY MODULATING VALVE, TWO-POSITION OA DAMPER AND ELECTRIC HEAT. THE

TYPICAL FCU'S SHALL BE STARTED/STOPPED DURING OCCUPIED/UNOCCUPIED PERIODS AND CONTROLLED ON A SEVEN-DAY SCHEDULE AUTOMATICALLY THROUGH THE LOCAL DDC CONTROLLER WHEN THE H-O-A SWITCH IS IN THE "AUTO" POSITION. IF THE H-O-A SWITCH IS SWITCHED TO THE "HAND" POSITION, THE FAN SHALL BE SIGNALED TO START MANUALLY THROUGH THE BYPASS CONTACTOR.

OCCUPIED MODE: WHEN THE SYSTEM IS SIGNALED TO START, THE NORMALLY CLOSED OA DAMPER SHALL BE OPENED (CONFIRMED BY END SWITCH). AFTER AN ADJUSTABLE TIME DELAY, THE FAN COIL UNIT FANS SHALL START. THE DDC CONTROLLER SHALL MONITOR THE STATUS OF THE FAN COIL UNIT FANS THROUGH A CURRENT SWITCH AT THE

COOLING: THE DDC CONTROLLER SHALL MONITOR THE SPACE TEMPERATURE VIA A SPACE-MOUNTED TEMPERATURE SENSOR. THE CONTROLLER SHALL MAINTAIN SPACE TEMPERATURE AT COOLING SETPOINT 75°F (ADJ.). THE CHW THREE-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 75°F (ADJ.). UPON A FALL IN SPACE TEMPERATURE BELOW 72°F (ADJ.), THE CHW VALVE BE FULLY CLOSED TO THE COIL.

HEATING: THE HEATING SYSTEM CONSISTS OF ELECTRIC HEATING. UPON A FALL IN SPACE TEMPERATURE BELOW 72°F (ADJ.), THE DDC CONTROLLER SHALL SEND A SIGNAL TO THE CHILLED WATER VALVE TO CLOSE POSITION. WHEN THE SPACE TEMPERATURE HAS DROPPED BELOW 68 F (ADJ) OR WHEN OUTSIDE AIR TEMPERATURE DROPS BELOW 54 F (ADJUSTABLE), THE ELECTRIC HEATING COIL SHALL BE ENERGIZED TO MAINTAIN THE HEATING SETPOINT (72 °F ADJUSTABLE).

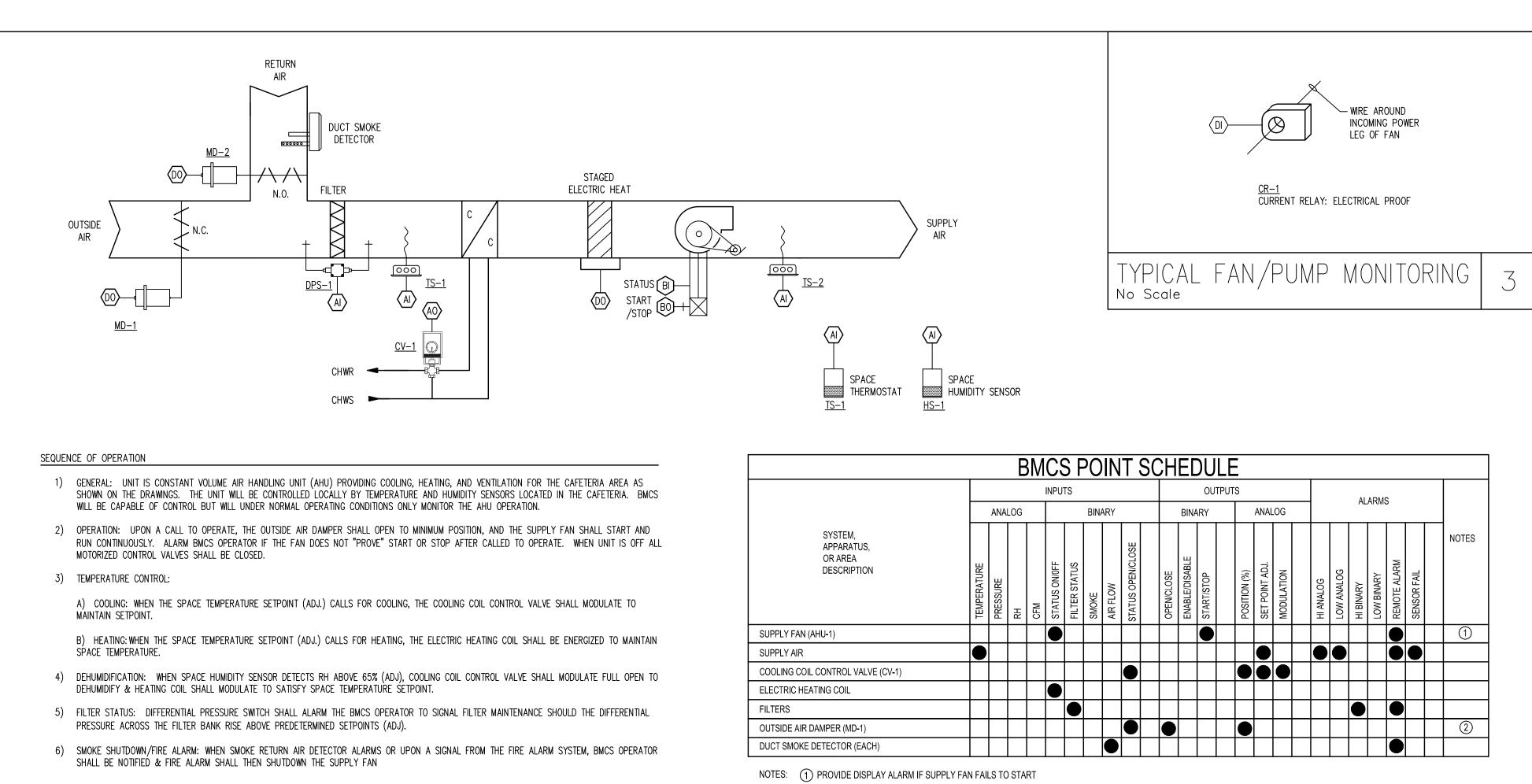
UNOCCUPIED MODE: THE OA DAMPER SHALL BE CLOSED AND THE FCU SHALL BE OFF. UPON A CALL FOR COOLING OR HEATING TO MAINTAIN UNOCCUPIED SPACE TEMPERATURE SETPOINTS, THE FCU SHALL START AND THE CONTROL VALVE SHALL MODULATE ACCORDING TO THE OPERATING MODE REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT. THE OA DAMPER SHALL REMAIN CLOSED.

OVERRIDE: WHEN A TIMED OVERRIDE MODE IS ENABLED FROM THE DDC CONTROLLER, THE FCU SHALL BE INDEXED TO THE OCCUPIED MODE FOR AN ADJUSTABLE TIME PERIOD

<u>SAFETIES:</u> ACTIVATION OF THE RETURN AIR DUCT SMOKE DETECTOR OR THE BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FCU. THESE SAFETIES SHALL BE INTERLOCKED WITH THE FANS WHEN OPERATING THROUGH THE DDC CONTROLLER OR BYPASS CONTACTOR.

DURING WARM-UP OR COOL DOWN PRIOR TO OCCUPANCY, THE OUTSIDE AIR DAMPER WILL REMAIN CLOSED. THE OPTIMUM START ROUTINE WILL PRESTART THE FAN COIL UNIT TO PRE-HEAT OR COOL THE SPACE PRIOR TO OCCUPANCY.

FAN COIL UNITS No Scale



2 PROVIDE DISPLAY ALARM IF OUTDOOR AIR DAMPER FAILS TO OPEN

CONSTANT VOLUME AHU (CONSTANT)

BACNET INTEGRATOR (BY CHILLER MFG.) DRAIN LINE PIPE -TO CONDENSATE CAPACITY AIR VENT BO START/STOP (BACK-UP) — BI FAILURE / ALARMS FLOW SWITCH (BY CHILLER MFR.) PACKAGED AIR COOLED CHILLER WITH FACTORY FURNISHED PUMPS, CONTROLLER, EXPANSION TANK, STRAINER, BALANCE VALVE, TO REMOTE BUILDING FLOW SWITCH & P/T PORT AIR HANDLING UNITS TEMP. PORT - BLOWDOWN VALVE PIPE TO CONDENSATE PRESSURE REDUCING VALVE. SET — FILL PRESSURE TO 12 PSI (ADJ.) BACKFLOW PREVENTER / ∠ WATER METER

CENTRAL COOLING PLANT SEQUENCE OF OPERATION

CHILLED WATER PLANT GENERAL:

THE CHILLER PLANT SERVING BUILDINGS D& F CONSISTS OF ONE (1) AIR-COOLED SCROLL CHILLER, CH-1, PIPED IN PRIMARY-FLOW CONFIGURATION AND DESIGNED TO PRODUCE CHILLED WATER AT 44°F (ADJ.). CHILLED WATER IS DISTRIBUTED TO THE BUILDINGS BY CONSTANT VOLUME PUMPS, CHWP-1 & CHWP-2, ON DUTY AND STAND-BY OPERATION RESPECTIVELY.

- A. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL CONTROL THE OPERATION OF THE CHILLER PLANT BASED ON AN OPTIMAL START/STOP PROGRAM OR FROM MANUAL COMMAND FROM
- B. ON A START COMMAND FROM THE BAS, THE CHILLED WATER SYSTEM SHALL ENABLE THE CHILLER'S CHILLED WATER PUMP AND AFTER FLOW IS PROVEN AT THE CHILLED WATER BARRELS (VIA FLOW SWITCH) THE CHILLER SHALL BE ENABLED TO OPERATE.
- C. THE PACKAGED CHILLER DDC CONTROLS SHALL THEN MODULATE THE COMPRESSORS TO MAINTAIN 44°F (ADJ) LEAVING CHILLED WATER SUPPLY TEMPERATURE AT THE CHILLER.
- D. BAS SHALL INTERFACE WITH THE CHILLER AND SHALL BE ABLE TO RESET THE CHILLED WATER SUPPLY TEMPERATURE THROUGH THE BAS AND THE PACKAGED CHILLER CONTROLS.
- E. IF THE OUTSIDE AIR TEMPERATURE DROPS BELOW 36°F (ADJ) THE CHILLED WATER PUMPS SHALL BE SIGNALED TO START. THE PUMP SHALL CONTINUE TO OPERATE UNTIL THE OUTSIDE AIR TEMPERATURE REACHES 38°F (ADJ) AT WHICH TIME THE PUMP SHALL SHUT OFF.
- F. CHILLED WATER PUMPS, CHWP-1 AND CHWP-2, SHALL BE ROTATED FROM DUTY TO STAND-BY ON A WEEKLY BASIS. WHEN CHILLER OPERATION IS DISCONTINUED, THE CHILLER PUMP SHALL CONTINUE TO OPERATE FOR A PERIOD OF ONE MINUTE (ADJ.) TO REMOVE RESIDUAL REFRIGERANT CAPACITY.
- <u>ALARMS:</u>

A) IF EITHER CHW PUMP FAILS TO START AFTER BEING CALLED TO OPERATE, THE BAS SHALL ALARM THE OPERATOR AND THE DDC CONTROLLER SHALL ENABLE STAND-BY SYSTEM CHW B) IF CHWS TEMPERATURE RISES ABOVE PREDETERMINED SETPOINT, BAS SHALL ALARM OPERATOR. C) BMCS SHALL MONITOR GENERAL ALARM FROM PACKAGED CHILLER CONTROLS AND SHALL SIGNAL ALARM TO OPERATOR.

CHILLER PLANT BMCS POINT SCHEDULE BINARY APPARATUS, OR AREA DESCRIPTION LEAVING CHILLED WATER TEMP. FRETURNING CHILLED WATER TEMP. CHILLER (CH-1) CHWP-1 CHWP-2

(1) AS A MINIMUM, PROVIDE THE ABOVE POINTS OF CONTROL AND/OR MONITORING AT THE BUILDING AUTOMATION SYSTEM. PROVIDE ALL REQUIRED HARDWIRED INTERLOCKS BETWEEN CHILLER AND ASSOCIATED PUMPS, FLOW SWITCHES AND/OR DIFFERENTIAL PRESSURE SWITCHES TO MAINTAIN CHILLER WARRANTY. CONTROLS CONTRACTOR AND CHILLER MANUFACTURER SHALL COORDINATE REQUIREMENTS. (2) provide graphic showing instantaneous cooling tonnage output and store data for trend logging.

CHILLED WATER SYSTEM

RJB Sheet Number: Checked By: M-301 QC Review: TJF Phase:

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CONSULTANT:

PROJECT NAME:

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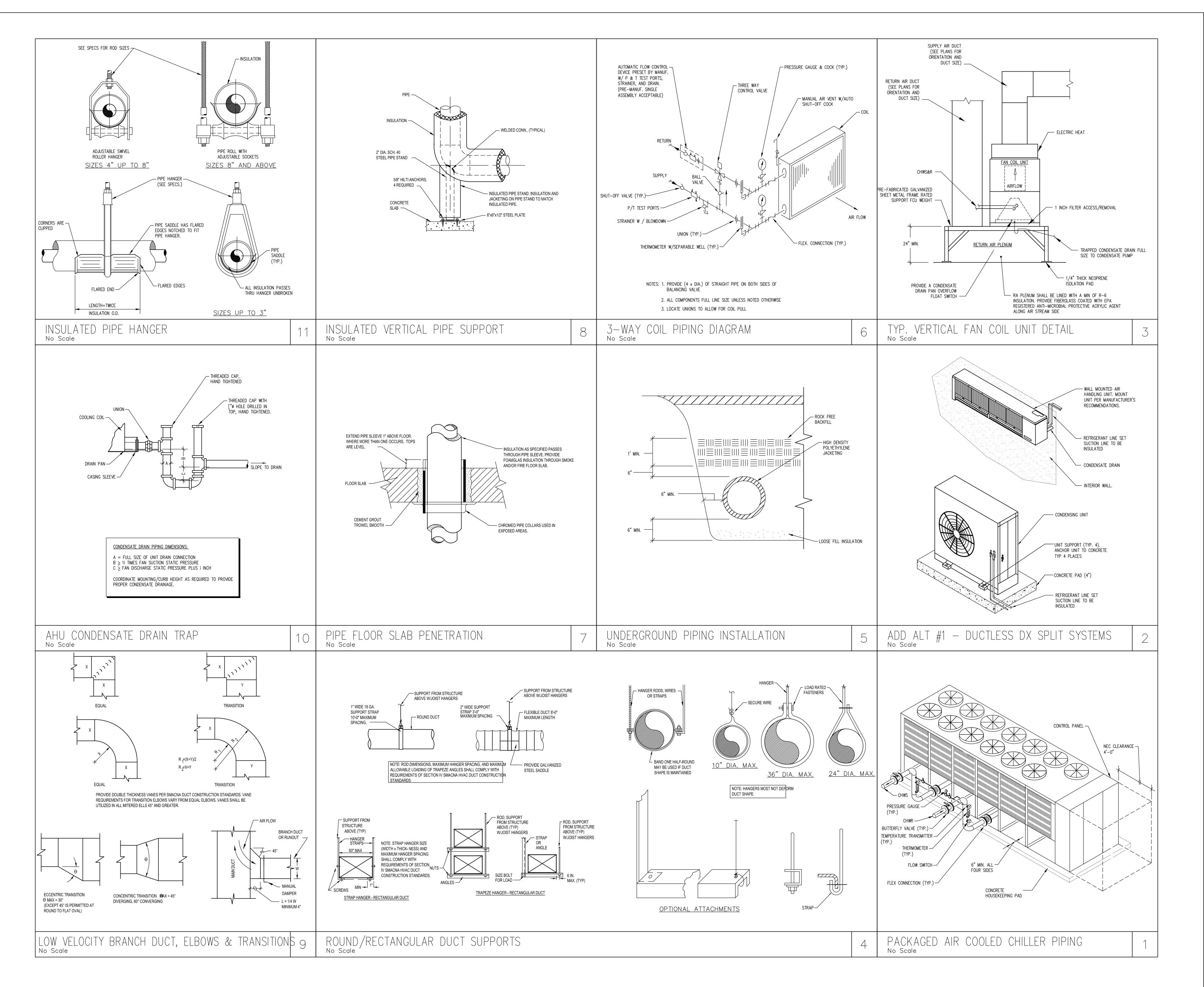
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PROFESSIONAL SEALS:

SHEET TITLE:

HVAC CONTROLS

SHEET INFORMATION: JOB No. **100045178** Date Issued: OCTOBER 25, 2015



PROJECT NAME:	
nge County John Bridges Community Center	13th Street Apopka, FI 32703

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ORLANDO, FL 32810

CONSULTANT:

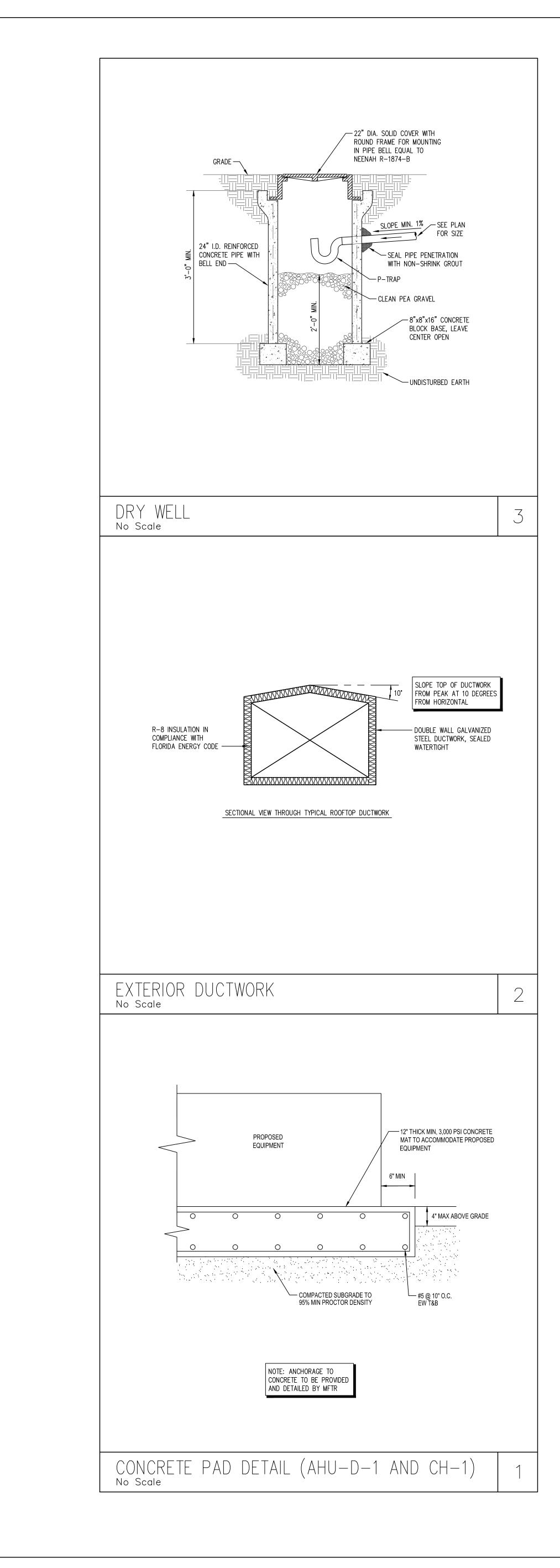
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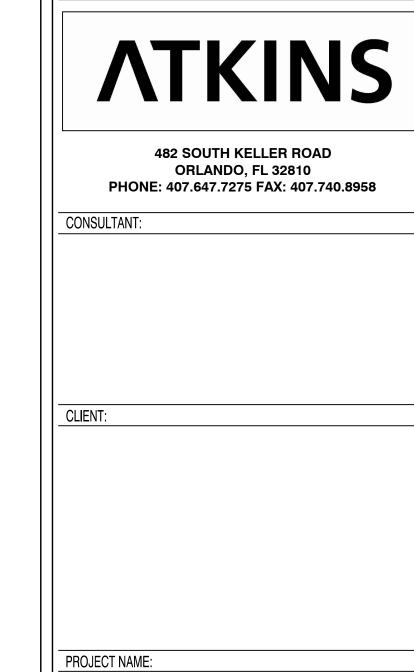
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SHEET INFORMATI	ION:		
JOB No. 1000	45178	Date Issued:	OCTOBER 25, 2015
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Phase:			

ISSUE LOG

SHEET TITLE:

PROFESSIONAL SEALS:





Bridges

John

County

Center Replacement ommunity

Building

Orange

ISSUE LOG PROFESSIONAL SEALS:

SHEET TITLE:

HVAC DETAILS

SHEET INFORMATION:

JOB No. **100045178** Date Issued: OCTOBER 25, 2015 **M-402** QC Review: Phase:

AHU-D-1 REBALANCE SCHEDULE											
	SUPPLY	RETURN	OUTSIDE AIR								
OLD	10,500	6,750	3,750								
NEW	2,900	1,480	1,420								

							AIR	HAN	NDLIN	G UN	IT SC	HE	DULE	E CH	HW/E	ΞH													
			LINIT COMPONENTO	AID E		NC FAN DATA			COOLING COIL									HEATING COIL											
PLAN	MODEL	UNIT	UNIT COMPONENTS	AIR	AIR FLOWS		FAN DATA					DE	DESIGN CONDITIONS			CAP	CAPACITY AIR DATA			WATER DATA				AIR DATA		MIN.		HEATER DATA	
MARK	NO.	TYPE	IN DIRECTION OF AIR FLOW	TOTAL	OA	EXT.	WHEEL	MAX.	MOTOR	VOLT/	(ED		EAT	L	.AT	SEN.	TOTAL	MAX.	MIN.	TEMF	P. °F	FLOW	WPD	TEMP	°. °F	AIRFLOW	1214/	CONTROL	VOLTS/
			SEE LEGEND BELOW	CFM	CFM	SP	TYPE	RPM	HP	PHASE	VFD	DB	WB	DB	WB	МВН	МВН	VEL. FPM	ROWS	ENT.	LVG.	GPM (F	T.WC)	ENT.	LVG.	(CFM)	KW	CONTROL	PHASE
AHU-D-1	39M	OUTDOOR MODULAR	MXB - FLT - FFL - CCL - EHC - MAC - FAN	2900	1420	1.0	DIRECT	2069	3.0	240/3	NO	81.4	71.9	51	50.8	94	184	380	8	44	56	30.5	5.0	53.2	96.8	2900	40	VERNIER	240/3
COMPONENTS LEGEND MXB - MIXING BOX PLN - PLENUM NOTES: 1. MODEL NUMBERS AND EQUIPMENT SELECTIONS BASED ON CARRIER.																													
FMXB - M	IIXING BC	X WITH FILTERS.	SAC - SMALL ACCESS	2. AIR PRESSURE DROP FOR FILTERS SHALL INCLUDE A 0.5" DIRTY FILTER ALLOWANCE.																									
CCL - C	OOLING	HTNG COIL COIL	MAC - MEDIUM ACCESS LAC - LARGE ACCESS XFB - EXTERNAL FACE & BYPASS		3. CAPA	ACITIES	SHOWN AR	E MINIMU	JM. AIR AN	ND WATE	R PRESSU	IRE DR	ROPS AR	E MAXII	MUM.														
II .	AN - FAN XFB - EXTERNAL FACE & BYPASS FL - FLAT FILTER FOR THE																												

5. FILTER EFFICIENCY SHALL BE 85% WITH A 2" 35% PRE-FILTER.

									FA	AN C	OIL UN	IIT WIT	TH EL	.ECTRIC	HEA	T SCH	HEDUI	_E								
	MODEL	SUPPLY	OUTDOOR	EVT 00			COC	LING (COIL DA	ATA					HEATIN	IG COIL D	ATA			FAN &	: MOTOR	R DATA		ELECTRIC	CAL DATA	
PLAN	MODEL	AIRFLOW	AIRFLOW	EXT SP	MIN.SEN.	MIN.TOT.	EAT	(°F)	LAT	(°F)	WATER	TEMP. °F	FLOW	MIN.TOT.	EAT	LAT	07500	VOLT/	DRIVE	110		DDM	VOLTS/	1404	14000	SERVICE
MARK	NO.	(CFM)	(CFM)	(IN.WC)	МВН	МВН	DB	WB	DB	WB	ENT.	LVG.	GPM	(KW)	DB °F	DB °F	STEPS	PHASE	TYPE	HP	FLA	RPM	PHASE	MCA	MOCP	
FCU-D-1	20MBE10	1500	140	0.44	38.4	55.7	80	67	55.0	54.5	44	55	10.5	10	65	86	1	240/1	DIRECT	3/4	5.0	NA	120/1	60	60	BLDG D - ADMINISTRATION
FCU-D-2	12MBE10	1200	220	0.35	28.2	41.0	80	67	55.1	54.6	44	54.3	8.0	10	60	86	1	240/1	DIRECT	1/3	2.5	NA	120/1	56	60	BLDG D - KITCHEN
FCU-F-1	42BVE16	1300	450	0.3	40	57.2	82	68	54.3	53.8	44	56	9.5	10	60	85	3	208/3	BELT	3/4	3.6	816	208/3	40	50	BLDG F - CLASSROOM 108
FCU-F-2	42BVE16	1300	450	0.3	40	57.2	82	68	54.3	53.8	44	56	9.5	10	60	85	3	208/3	BELT	3/4	3.6	816	208/3	40	50	BLDG F - CLASSROOM 124
FCU-F-3	42BVE16	1300	450	0.3	40	57.2	82	68	54.3	53.8	44	56	9.5	10	60	85	3	208/3	BELT	3/4	3.6	816	208/3	40	50	BLDG F - CLASSROOM 109
FCU-F-4	42BVE16	1300	450	0.3	40	57.2	82	68	54.3	53.8	44	56	9.5	10	60	85	3	208/3	BELT	3/4	3.6	816	208/3	40	50	BLDG F - CLASSROOM 125
FCU-F-5	42BVE16	1300	450	0.3	40	57.2	82	68	54.3	53.8	44	56	9.5	10	60	85	3	208/3	BELT	3/4	3.6	816	208/3	40	50	BLDG F - CLASSROOM 117
FCU-F-6	42BVE16	1300	450	0.3	40	57.2	82	68	54.3	53.8	44	56	9.5	10	60	85	3	208/3	BELT	3/4	3.6	816	208/3	40	50	BLDG F - CLASSROOM 132

1. MODEL NUMBERS AND EQUIPMENT SELECTIONS FOR BLDG D ARE BASED ON FIRST CO. 2. MODEL NUMBERS AND EQUIPMENT SELECTIONS FOR BLDG F ARE BASED ON CARRIER.

3. MAX APD ACROSS CHW COIL SHALL BE 0.5 IN (WC)

4. MAX WPD ACROSS CHW COIL SHALL BE 10 FT (WC) 5. MAX APD ACROSS HTG COIL SHALL BE 0.5 IN (WC)

DIF - DIFFUSER

ECO - ECONOMIZER

6. PROVIDE A CONDENSATE PUMP WITH SAFETY SWITCH FOR EACH FCU. 7. WIRE SAFETY SWITCH TO SHUT OFF UNIT AND SEND ALARM TO BAS SYSTEM.

8. PROVIDE DISCONNECT SWITCH AND SINGLE POINT ELECTRICAL CONNECTION.

ADD ALT#1 AIR HANDLING UNIT SCHEDULE (DX SPLIT)															
PLAN	MODEL	COND. UNIT	TOTAL AIR	EXT.	С	OOLING	CAPA	.CITY				ELECTRI	CAL [DATA	
MARK	NUMBER	PLAN MARK	CFM	S.P.	TOT.	SENS.	EAT	EAT	LAT	LAT	FAN	FAN	MCA	МОСР	VOLT/
IVIALVIX	NOWBER	I LAN MANN	OT IVI	5.1 .	MBH	мвн	DB	WB	DB	WB	WATTS	FLA	IVICA	IVIOCI	PHASE
AC-1	PKA-A24KA4	CU-1	635	0.2	24.0	24.0	75	64	62	59	56	0.036	1	26	208/1

1. BASIS OF DESIGN: MITSUBISHI.

2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. STARTER, RELAY AND CONTROLS TO BE PART OF SPLIT-DX SYSTEM.

FLT - PRE-FILTERS

FFL - FINAL FILTERS

3. SEER 17 BTU/H/W. 4. PROVIDE FILTERS PER MANUFACTURER'S RECOMMENDATION.

-		cc	OLING	CAPACITY		EL	ECTRIC	CAL DA	ΓΑ	PIPIN	IG DATA	
PLAN MARK	MODEL NO.	MIN. MBH			NO. COMP.	NO. FANS	МСА	моср	VOLT/ PHASE	GAS O.D.	LIQUID O.D.	WEIGHT LBS.
CU-1	PUY-A24NHA4	24.0	110	R-410A	1	1	18	30	208/1	5/8"	3/8"	165

		P	ACK	AGE) AIR	CO		AW C	TER C	HILLE	ER SO	CHEC	ULE		
		С	OOLING	CAPACI [*]	ΓΥ		WATER	DATA		CONDI	ENSER		ELECTR	ICAL DATA	1
PLAN MARK	MODEL NO.	MIN. TONS	AMB. TEMP	COMP. TYPE	MAX # COMP.	FLOW (GPM)	MAX PD (FT)	EWT	LWT	NO.	AN HP	KW/ TON	MIN. CIR. AMPS.	МОСР	VOLT/ PHASE/ HERTZ
CH-1	30RAP060	52.4	105	SCROLL	1	104.3	24	56	44	4	2	1.37	273.8	300.0	208/3/60

1. BASIS OF DESIGN: CARRIER AQUASNAP UTILIZING R-410A REFRIGERANT.

2. FURNISH WITH SINGLE POINT CONNECTION, NON-FUSED DISCONNECT, ULTRA LOW SOUND, HAIL GUARDS AND HYDRONIC PACKAGE INCLUDING STRAINER/BLOW-DOWN VALVE, EXPANSION TANK, DUAL PUMPS (5 HP HIGH HEAD), AIR VENT CONNECTION PORTS, P/T ACCESS PORT, FLOW

SWITCH AND BALANCING VALVE/DRAIN PLUG.

PUMP SCHEDULE														
5			F	LUID DA	ATA		PU	MP DA	TA		E	ELECTRICA	AL DATA	
PLAN MARK	MODEL NO.	SYSTEM	FLOW	HEAD	FLUID	TYPE	IMPELLER	%	SUCT.	DISCH.	VFD	MOTOR	моток	VOLTS/
IVIAINN	NO.		GPM	FT	TEMP	111 6	SIZE	EFF.	SIZE	SIZE	YES/NO	HP	RPM	PHASE
CHWP-1	e-90 2AAC	CHW	104.3	83.2	44	IN-LINE CLOSE COUPLED	4.75	74.74	2"	2"	NO	5	3450	208/3
CHWP-2	e-90 2AAC	CHW	104.3	83.2	44	IN-LINE CLOSE COUPLED	4.75	74.74	2"	2"	NO	5	3450	208/3

1. BASIS OF DESIGN CARRIER AQUASNAP. REFER TO SPECIFICATIONS FOR LIST OF APPROVED EQUIVALENT MANUFACTURERS.

2. PUMPS ARE REDUNDANT AND ARE ROTATED FROM DUTY TO STAND-BY ON A WEEKLY BASIS.

			EXP	ANSI	SYS NC	STEM	1 SCH	EDULE	•			
PLAN MARK	MODEL NO.	SYSTEM		TEM MP.	INITIAL PRESS.	TANK SIZE	MAX. PRESS.	AI MODEL	R SEPA	RATOR GPM	MAX.	MAKE-UF WATER
1017 (1 (1 (140.		MIN.	MAX.	PSIG	GAL.	PSIG	NO.	SIZE	GPIVI	PD	SIZE
AS/ET	AX-15	CHW	44	80	10	7.8	45	2-1/2-AS-L	2-1/2	105	0.8	3/4"

EXPANSION TANK BASIS OF DESIGN IS CARRIER AQUASNAP. AIR SEPARATOR BASIS OF DESIGN IS AMTROL. REFER TO SPECIFICATIONS FOR LIST OF APPROVED EQUIVALENT MFR.

482 SOUTH KELLER ROAD ORLANDO, FL 32810 PHONE: 407.647.7275 FAX: 407.740.8958 CONSULTANT:

PROJECT NAME:

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No.	Date	Description
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	· ·	
ISSUE L	.OG	
PROFES	SSIONAL SEALS	S:
PROFES	SSIONAL SEALS	6:
PROFES	SSIONAL SEALS	3:
PROFES	SSIONAL SEALS	S:
PROFES	SSIONAL SEALS	S:
PROFES	SSIONAL SEALS	S:
PROFES	SSIONAL SEALS	3:
PROFES	SSIONAL SEALS	S:
PROFES	SSIONAL SEALS	S:

HVAC SCHEDULES

SHEET TITLE:

SHEET INFORMATION: JOB No. **100045178** Date Issued: OCTOBER 25, 2015 Phase:

BOXES AND FITTINGS

- NON-FUSED SAFETY SWITCH, 3 = NO. OF POLES, 60 = SWITCH SIZE. 600 V. UNLESS OTHERWISE NOTED.
- FUSED SAFETY SWITCH, 3 = NO. OF POLES, 60 = SWITCH SIZE, 50 = FUSES SIZE. 600 V. UNLESS OTHERWISE NOTED.
- $\frac{30/3}{5}$ Fused safety switch combination starter, 3 = NO. OF POLES, 30 = MCP, 0 = NEMA STARTER SIZE, 3R = ENCLOSURE NEMA 1 UNLESS NOTED. 600V UNLESS OTHERWISE NOTED.
- INDIVIDUALLY MOUNTED ENCLOSED CIRCUIT BREAKER, 3 = NO. OF POLES, 100 = FRAME SIZE, 70 = TRIP RATING. 600 V. UNLESS OTHERWISE NOTED.
- 20A. MOTOR RATED SWITCH.

RECEPTACLES

- DUPLEX RECEPTACLE, 2P, 3W, GROUNDING TYPE, 20A, 125V, NEMA 5-20R. MOUNT 18" A.F.F. U.O.N.
- DUPLEX RECEPTACLE SAME AS ABOVE EXCEPT WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
- DUPLEX CONVENIENCE RECEPTACLE SAME AS ABOVE EXCEPT WITH 2-FLAP, SPRING-HINGED, GASKETED AND WEATHERPROOF COVER.
- DOUBLE DUPLEX RECEPTACLE IN ONE OUTLET BOX, 2P, 3W, GROUNDING TYPE, 20A, 125V, NEMA 5-20R. MOUNT 18" A.F.F. U.O.N.

BOXES AND FITTINGS

- CEILING OR FLOOR MOUNTED JUNCTION BOX
- WALL MOUNTED JUNCTION BOX

<u>SWITCHES</u>

- SINGLE POLE TOGGLE SWITCH. 20A., 120/277 VAC. MOUNTED 4'-0" A.F.F. "a" = SWITCH LEG.
- THREE-WAY AND FOUR-WAY TOGGLE SWITCHES, $\$^{3}\4 20A., 120/277 VAC. MOUNTED 4'-0" A.F.F.
- \$M 20A. MOTOR RATED SWITCH WITH OVERLOADS.

<u>LEGEND</u>

----- EXISTING

-----NEW

— — — — DEMOLITION

<u> WIRING</u>

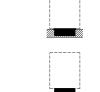


A-1 SINGLE CIRCUIT HOMERUN TO PANEL WITH MINIMUM OF 2 #12AWG CIRCUIT WIRES AND 1 #12AWG GROUND WIRE IN A 3/4" CONDUIT, U.O.N.: "A" INDICATES PANEL DESIGNATION, NUMBER INDICATES CIRCUIT DESIGNATION.

INDICATES A CAPPED CONDUIT.

INDICATES A FLEXIBLE METAL CONDUIT CONNECTION. USE LIQUID TIGHT CONDUIT IN WET, DAMP OR OILY LOCATIONS.

POWER DISTRIBUTION



RECESSED MOUNTED ON WALL, SIZE AS INDICATED. DASHED LINE INDICATES REQUIRED CLEARANCE. POWER OR LIGHTING CIRCUIT BREAKERS PANEL SURFACE MOUNTED ON WALL, SIZE AS INDICATED. DASHED LINE INDICATES REQUIRED CLEARANCE. MOTOR. WHEN SHOWN, NUMBER INSIDE INDICATES

POWER OR LIGHTING CIRCUIT BREAKERS PANEL

HORSEPOWER.

POWER COMPANY TRANSFORMER

ABBREVIATIONS

AMPERES

ABOVE FINISHED FLOOR

AVAILABLE FAULT CURRENT

AUTHORITY HAVING JURISDICTION

AMPERES INTERRUPTING CAPACITY, SYMMETRICAL

AUTOMATIC TRANSFER SWITCH

CKT. CIRCUIT

COND., C. CONDUIT

DISCONNECT

ENCL. ENCLOSURE

F.A.C.P. FIRE ALARM CONTROL PANEL

GROUND FAULT INTERRUPTER

GND, G. GROUND

GALVANIZED RIGID STEEL CONDUIT

HEATING, AIR CONDITIONING, AND REFRIGERATION

HORSE POWER

ISOLATED GROUND

KILOWATT $\mathsf{K}\mathsf{W}$

MOTOR CONTROL CENTER

NATIONAL ELECTRICAL CODE

PANELBOARD

POLYVINYL CHLORIDE CONDUIT

SYSTEM SECURITY CONTROL PANEL

UNLESS OTHERWISE NOTED

TRANSFORMER XFMR

INDICATES WEATHERPROOF EQUIPMENT

GENERAL NOTES

- 1. THE WORK PRACTICES EMPLOYED ON THIS PROJECT SHALL AT ALL TIMES COMPLY WITH OR EXCEED THE LATEST ADOPTED EDITION OF THE NEC (NATIONAL ELECTRICAL CODE). ELECTRICAL CONTRACTOR SHALL PROVIDE OR OBTAIN ALL REQUIRED LABOR, MATERIAL, EQUIPMENT, INSURANCE, TOOLS, PERMITS, INSPECTIONS, ETC. TO PERFORM THE PROJECT ELECTRICAL WORK AS PER NEC, LOCAL AGENCIES, AND OWNER REQUIREMENTS.
- 2. A COPPER EQUIPMENT GROUNDING CONDUCTOR, SIZED AS PER TABLE 250-122 OF THE 2008 OR LATEST ADOPTED NEC, SHALL BE INSTALLED IN EVERY RACEWAY AND EFFECTIVELY TERMINATED AT EACH DEVICE. UNLESS NOTED OTHERWISE, MINIMUM WIRES SIZE FOR PHASE, NEUTRAL AND GROUND SHALL BE #12AWG AND MINIMUM CONDUIT SIZE SHALL BE 3/4". CONDUCTOR INSULATION SHALL BE RATED FOR 600 VOLTS AND THWN.
- 3. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED RACEWAY FOR A/C CONTROLS AS REQUIRED. FIELD COORDINATE WITH OTHER TRADES.
- 4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED TO PERFORM THE ELECTRICAL WORK. OWNER/GENERAL CONTRACTOR SHALL BE NOTIFIED BEFORE STARTING CUTTING AND PATCHING, AND SHALL BE DONE IN SUCH A MANNER THAT WILL NOT AFFECT THE BUILDING STRUCTURE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE AS A RESULT OF THE CUTTING AND PATCHING AND SHALL PROVIDE A CODE COMPLIANCE SOLUTION TO RESTORE THE BROKEN SYSTEMS AT NO EXTRA CHARGE.
- 5. ELECTRICAL CONTRACTOR SHALL FOLLOW OWNER/GENERAL CONTRACTOR, NATIONAL AND LOCAL AGENCIES, ETC. SAFETY REGULATIONS PROCEDURES. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE EQUIPMENT AND WORKING AREA PROTECTION TO PREVENT INJURIES TO PEOPLE AND DAMAGE TO PROPERTY.
- 6. ELECTRICAL CONTRACTOR SHALL FULLY TEST ELECTRICAL SYSTEMS UPON COMPLETION OF WORK.
- 7. LABEL EACH SWITCH, RECEPTACLE, PANEL, AND JUNCTION BOXES WITH SOURCE PANEL AND CIRCUIT
- 8. VERIFY PHASE ROTATION ON THREE-PHASE EQUIPMENT (DISCONNECTS, RECEPTACLES, ETC.)
- 9. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. CIRCUIT BREAKERS PROTECTING POWER PANELS, TRANSFORMERS, AND MOTORS SHALL BE 100%. CIRCUIT BREAKERS PROTECTING HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPMENT SHALL BE HACR RATED.
- 10. POWER AND COMMUNICATION DISTRIBUTION CONDUITS AND HOME RUNS SHALL BE RUN ABOVE THE BOTTOM CHORD OF TRUSSES TO AVOID FIRE RATED WALL PENETRATIONS. IF A FIRE WALL PENETRATION IS REQUIRED, THE ELECTRICAL CONTRACTOR SHALL USE AND PROVIDE A WALL PENETRATION PROCEDURE AND INSTALLATION APPROVED BY THE A.H.J. FOR THE FIRE RATED WALL TO BE PENETRATED.
- 11. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CONDITIONS BEFORE SUBMITTING A BID. NO ADDITIONAL PAYMENT SHALL BE RECEIVED ABOVE BID PRICE FOR WORK THAT CAN BE INFERRED THROUGH OBSERVATION OF EXISTING CONDITIONS.
- 12. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES. THE CONTRACTOR SHALL TAKE INTO ACCOUNT SPECIAL OPERATING REQUIREMENTS WHICH MAY AFFECT NORMAL WORKING AND ACCESS CONDITIONS.
- 13. RACEWAY ON PLAN DRAWINGS ARE SHOWN DIAGRAMMATICALLY, CONTRACTOR TO SELECT THE MOST FEASIBLE ROUTING.
- 14. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION, SIZE, CONNECTION POINT AND LOAD OF ALL EQUIPMENT BEING FURNISHED BY GENERAL CONTRACTOR, OR OWNER BEFORE ROUGH-IN OF ANY CONDUIT, AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 15. CONDUCTORS FROM DISCONNECTS TO MOTORS SHALL BE OF THE SAME SIZE AS FROM STARTER TO DISCONNECT. GROUNDING CONDUCTORS SHALL BE SIZED AS PER N.E.C. (NATIONAL ELECTRICAL CODE) SECTION 250.

482 SOUTH KELLER ROAD ORLANDO, FL 32810 PHONE: 407.647.7275 FAX: 407.740.8958 CONSULTANT:

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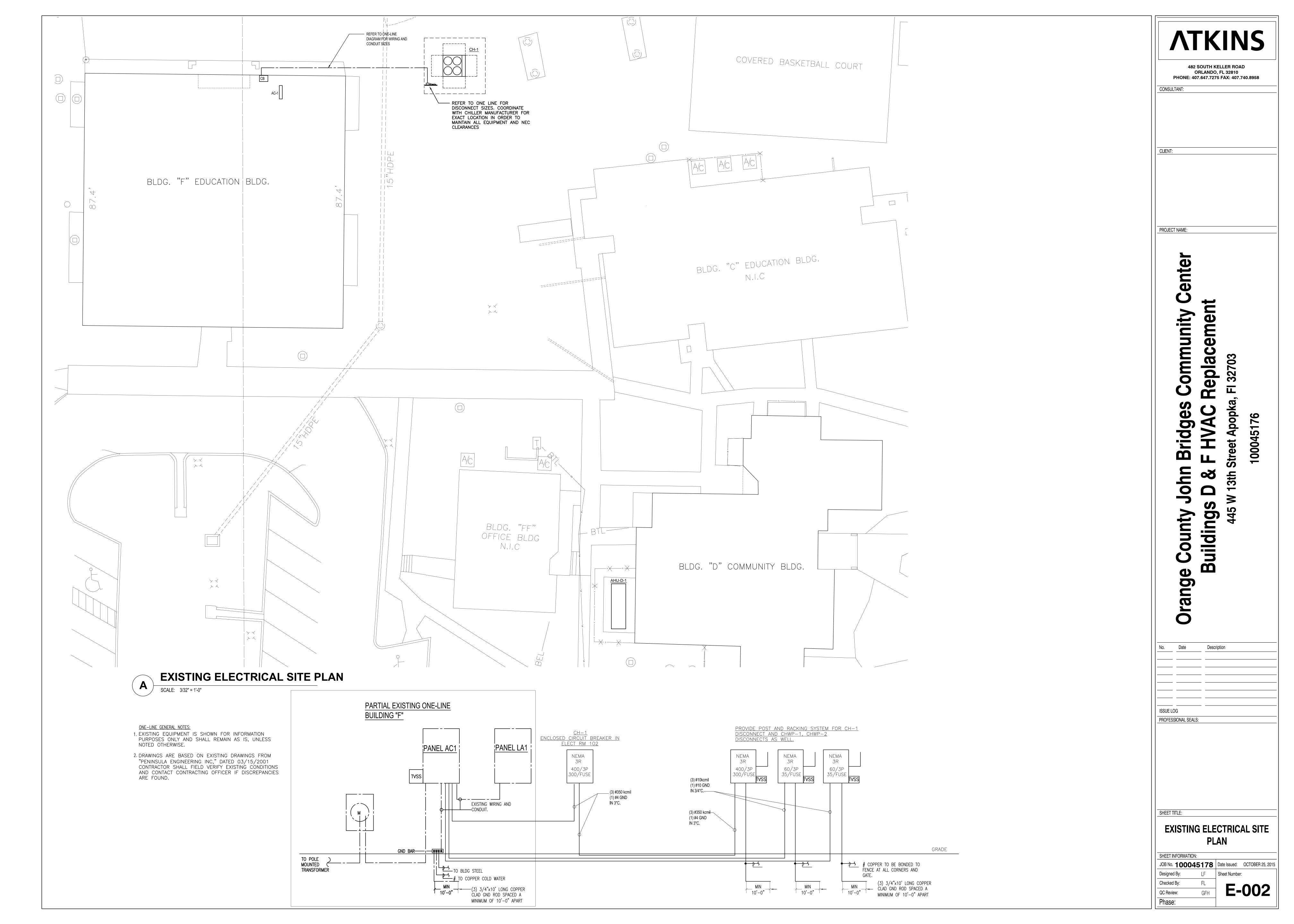
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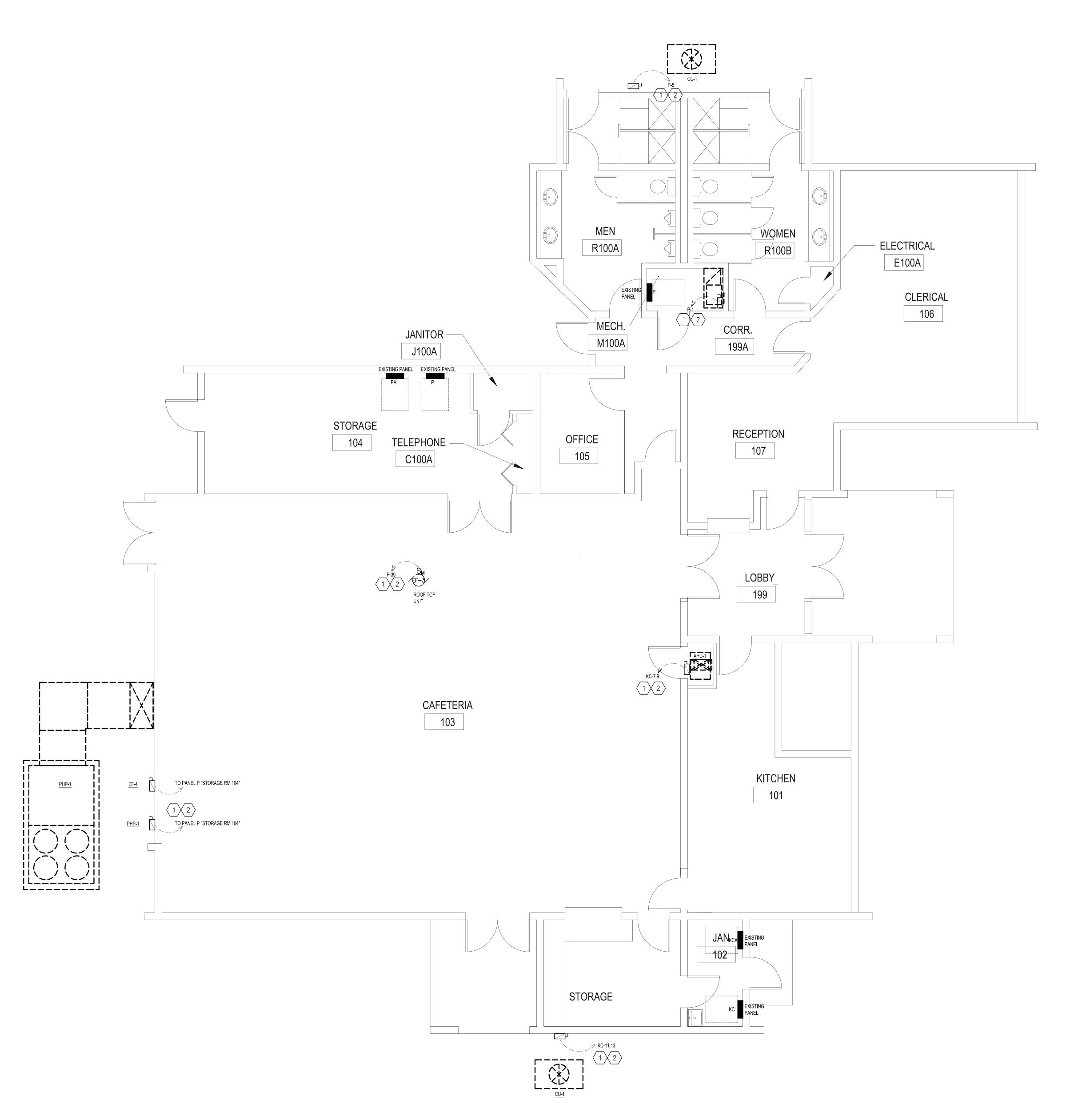
Description PROFESSIONAL SEALS:

ELECTRICAL SYMBOLS LEGEND AND GENERAL NOTES

SHEET INFORMATION:

JOB No. **100045178** Date Issued: OCTOBER 25, 2015 E-000 Phase:







- ALL DEVICES AND EQUIPMENT SHOWN ON THIS PLAN ARE EXISTING. REFER TO SYMBOL LEGEND FOR DESCRIPTION.
- EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE BASED ON ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE CONFIRMED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN IN CASE OF DISCREPANCIES.
- 3. ALL CONDUITS/ RACEWAYS SERVING OTHER AREAS THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING THE CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDE WITH BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 4. ALL ITEMS REMOVED DURING THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER THE OWNER AT THE OWNER'S DISCRETION.

KEYED NOTES:

- (1) CIRCUIT NUMBERS ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM CIRCUITRY BY TRACING CIRCUITS BACK TO THEIR SOURCE PRIOR TO DEMOLITION.
- DEMOLISH THE CIRCUIT AND ASSOCIATED SAFETY SWITCH OR STARTER IN ITS ENTIRELY BACK TO THE SOURCE PANEL AND TO THE EQUIPMENT IT SERVES.

SHEET NOTE:

1. UPDATE EXISTING PANEL DIRECTORIES WITH NEW WORK PROVIDED UNDER THIS CONTRACT. ELECTRICIAN SHALL KNOW THAT EXISTING PANELS ARE 240V 3—PHASE HI-LEG CONFIGURATION.



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CONSULTANT:

PROJECT NAME:

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Orange

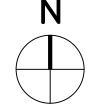
PROFESSIONAL SEALS:

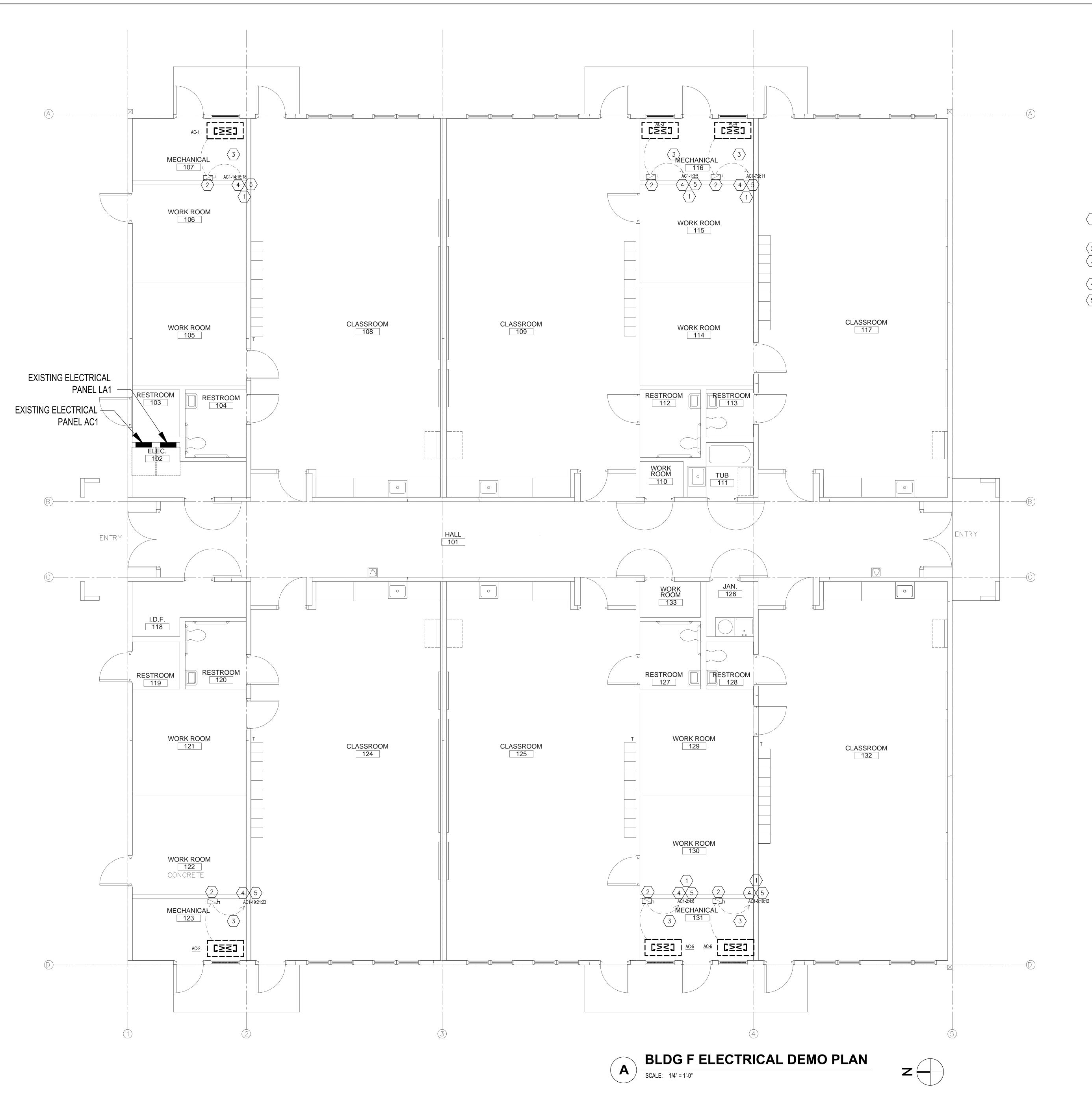
BLDG D ELECTRICAL DEMO PLAN

SHEET INFORMATION:

JOB No. **100045178** Date Issued: OCTOBER 25, 2015 **ED-101** Phase:

BLDG D ELECTRICAL DEMO PLAN





GENERAL NOTES:

- ALL DEVICES AND EQUIPMENT SHOWN ON THIS PLAN ARE EXISTING. REFER TO SYMBOL LEGEND FOR DESCRIPTION.
- 2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE BASED ON ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE CONFIRMED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN IN CASE OF DISCREPANCIES.
- 3. ALL CONDUITS/ RACEWAYS SERVING OTHER AREAS THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING THE CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDE WITH BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 4. ALL ITEMS REMOVED DURING THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER THE OWNER AT THE OWNER'S DISCRETION.

KEYED NOTES:

- CIRCUIT NUMBERS ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM CIRCUITRY BY TRACING CIRCUITS BACK TO THEIR SOURCE PRIOR TO DEMOLITION.
- 2 DEMOLISH SAFETY SWITCH OR STARTER.
- DEMOLISH CONDUCTORS FOR ASSOCIATED CIRCUIT IN ITS ENTIRELY BACK TO THE SOURCE PANEL AND TO THE EQUIPMENT IT SERVES.
- 4 RE-USE CONDUIT AND PROVIDE NEW CONDUCTORS REFER TO SHEET E-102 FOR MORE INFORMATION.
- 5 RE-USE BREAKER IN EXISTING PANEL AC1 LOCATED IN ELECTRICAL ROOM 102 REFER TO SHEET E-102 FOR MORE INFORMATION. SHEET NOTE:
- UPDATE EXISTING PANEL DIRECTORIES WITH NEW WORK PROVIDED UNDER THIS CONTRACT.

ATKINS

482 SOUTH KELLER ROAD ORLANDO, FL 32810 PHONE: 407.647.7275 FAX: 407.740.8958

CONSULTANT:

PROJECT NAME:

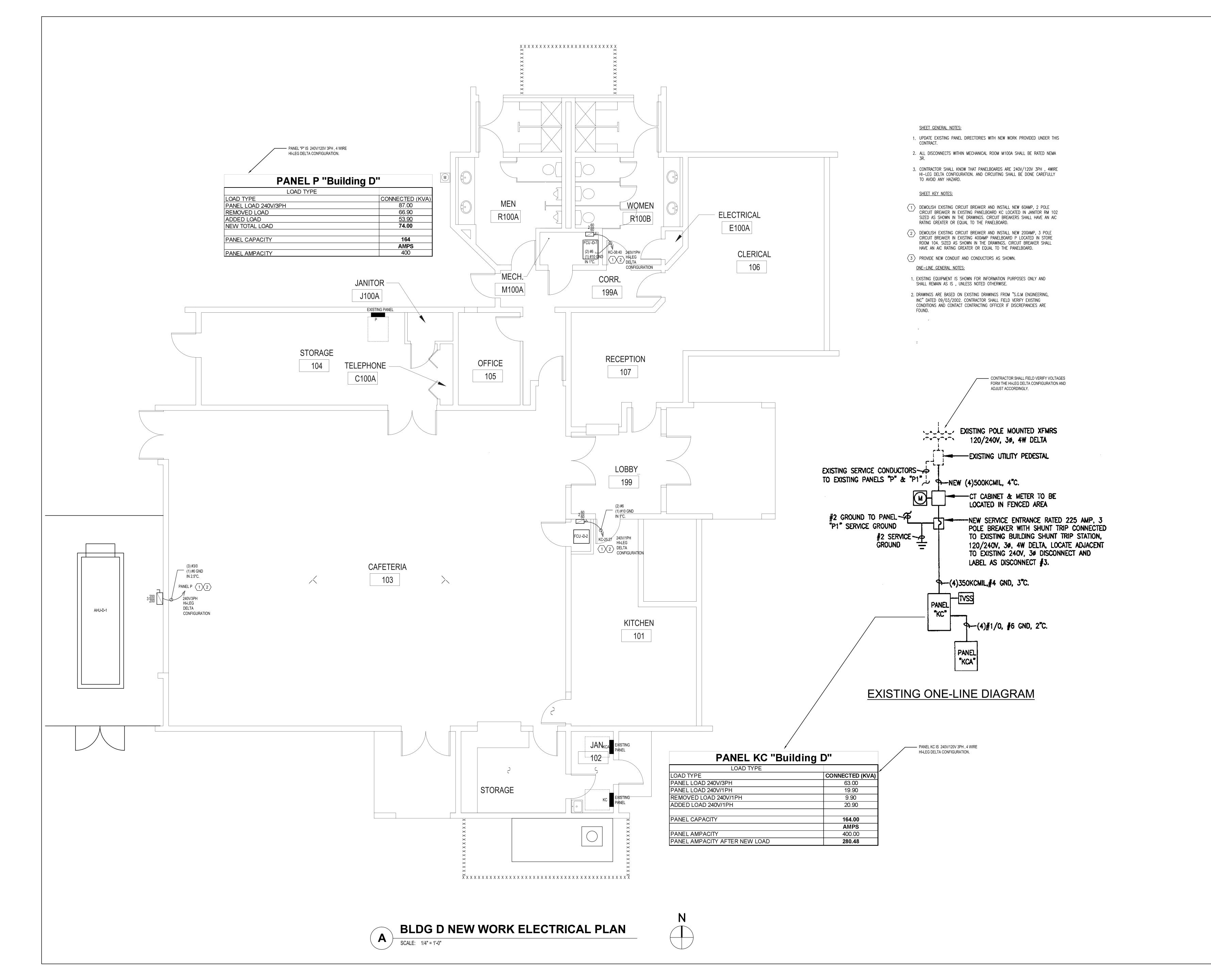
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No.	Date	Description	
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BLDG F ELECTRICAL DEMO PLAN

SHEET INFORMATION:

JOB No. **100045178** Date Issued: OCTOBER 25, 2015 **ED-102**



ATKINS	
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482 SOUTH KELLER ROAD ORLANDO, FL 32810 PHONE: 407.647.7275 FAX: 407.740.8958

CONSULTANT:

PROJECT NAME:

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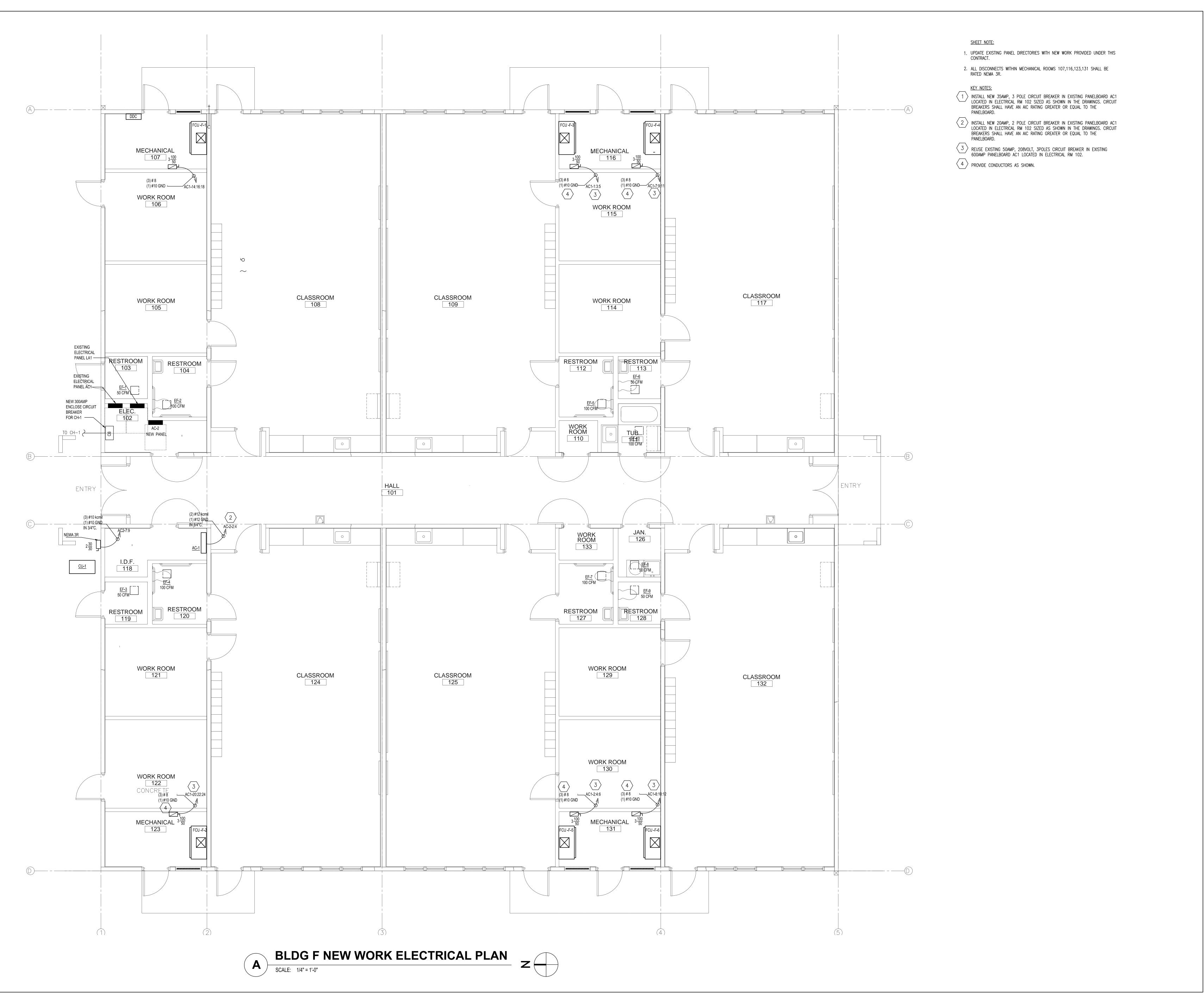
PROFESSIONAL SEALS:

BLDG D NEW WORK ELECTRICAL

PLAN

JOB No. **100045178** Date Issued: OCTOBER 25, 2015 E-101

SHEET INFORMATION:



482 SOUTH KELLER ROAD ORLANDO, FL 32810 PHONE: 407.647.7275 FAX: 407.740.8958

CONSULTANT:

PROJECT NAME:

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Buildings D & F HVAC F 445 W 13th Street Apopka, I

Bridges

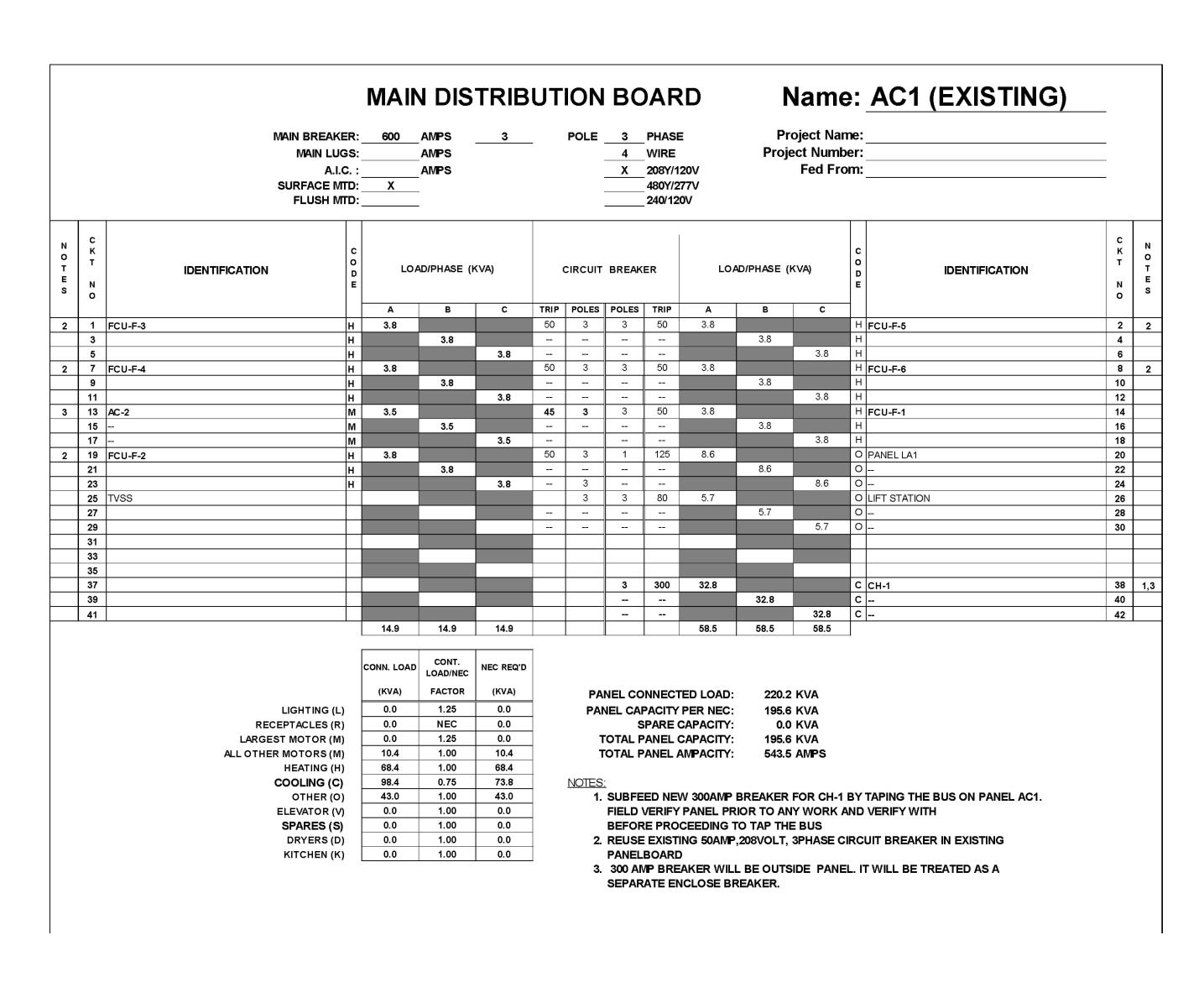
No. Date Description

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SHEET TITLE

BLDG F NEW WORK ELECTRICAL PLAN

Checked By: FL
QC Review: GFH
Phase:



	A.I.C SURFACE MT	SS: 125 C.: 10,000	_AMPS _AMPS	3	_	POLE	3 4 X	PHAS WIRE 208Y/ 480Y/ 240/1	≣ /120V /277V	P	roject N ject Nu	lame mber		2	
C K T N	IDENTIFICATION	C O D E	AD/PHASE (KVA)		CIRCUIT	BREAK	ŒR	LC	OAD/PHASE	(KVA)	C		IDENTIFICATION	C K T N
		A	В	С	TRIP	POLES	POLES	TRIP	Α	В	С				
1	CHWP-2 (REDUNDANT PUMP)	М 0.0			35	3	2	20	0.2				AC-1		2
3	, ,	М	0.0							0.2)		4
5		М		0.0											6
7		O 1.9			30	2	1	20							8
9		0	1.9				1	20							10
11					20	1	1	20							12
		M 2.1			35	3	1	20							14
15		М	2.1				1	20							16
17		М		2.1			1	20							18
19					20	1	1	20							20
21					20	1	1	20							22
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41															42
		4.0	4.0	2.1					0.2	0.2	0.0				
		CONN. LOAE	CONT. LOAD/NEC	NEC REQ'D		PAN	IEL COM	INFCT	ED LOAI)· 10	4 KVA				
	LIGHTING (L)		1.25	0.0	-				PER NEC		4 KVA 4 KVA				
	RECEPTACLES (R)	0.0	NEC	0.0	+	FAN			CAPACITY		O KVA				
	LARGEST MOTOR (M)		1.25	0.0	1	TC			CAPACITY		4 KVA				
	ALL OTHER MOTORS (M)		1.00	6.3	†				AMPACITY		0 AMPS				
	HEATING (H)		1.00	0.0	1										
	COOLING (C)	0.0	1.00	0.0	1	NOTES) <u>:</u>								
	OTHER (O)		1.00	4.1	1		_								
	ELEVATOR (V)		1.00	0.0	1										
	SPARES (S)		1.00	0.0	1										
	DRYERS (D)		1.00	0.0											
	KITCHEN (K)		1.00	0.0	7										

PANEL AC1 "Building F	=**
LOAD TYPE	
LOAD TYPE	CONNECTED (KVA)
PANEL LOAD	134.10
REMOVED LOAD	91.20
ADDED LOAD	<u>183.76</u>
NEW TOTAL LOAD	226.66
PANEL CAPACITY	216.00

EXISTING PANEL AC1





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CONSULTANT:

PROJECT NAME: Center

Replacement ommunity **Bridges**

Orange

PROFESSIONAL SEALS:

ELECTRICAL SCHEDULES

SHEET INFORMATION:

JOB No. **100045178** Date Issued: OCTOBER 25, 2015 E-501