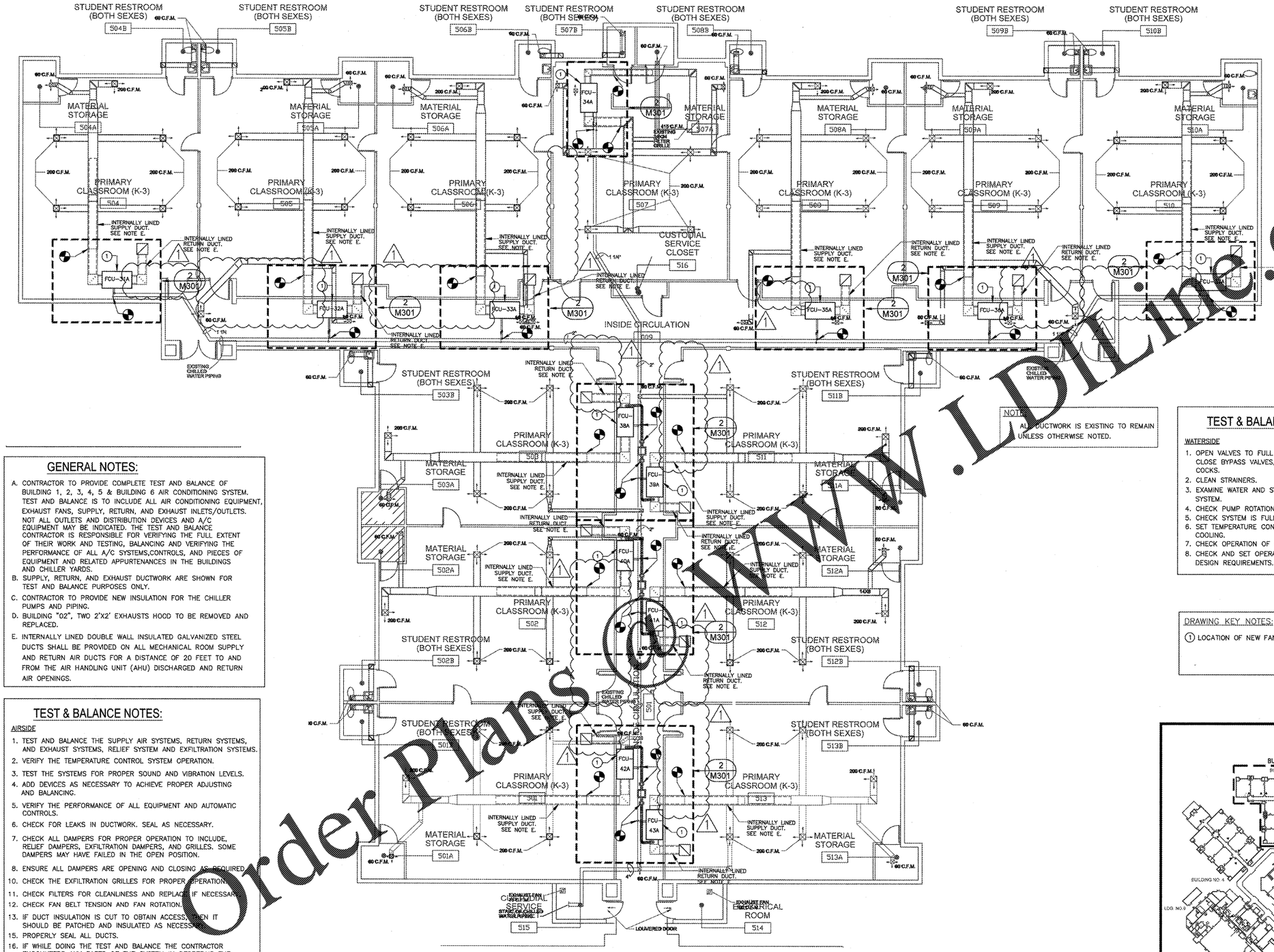

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MECHANICAL / ELECTRICAL ENGINEER
P.E. #39048
EB 5315

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BUILDING DEPARTMENT
BCPS

GENERAL NOTES:

A. CONTRACTOR TO PROVIDE COMPLETE TEST AND BALANCE OF BUILDING 1, 2, 3, 4, 5 & BUILDING 6 AIR CONDITIONING SYSTEM. TEST AND BALANCE IS TO INCLUDE ALL AIR CONDITIONING EQUIPMENT, EXHAUST FANS, SUPPLY, RETURN, AND EXHAUST INLETS/OUTLETS. NOT ALL OUTLETS AND DISTRIBUTION DEVICES AND A/C EQUIPMENT MAY BE INDICATED. THE TEST AND BALANCE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE FULL EXTENT OF THEIR WORK AND TESTING, BALANCING AND VERIFYING THE PERFORMANCE OF ALL A/C SYSTEMS,CONTROLS, AND PIECES OF EQUIPMENT AND RELATED APPURTENANCES IN THE BUILDINGS AND CHILLER YARDS.

B. SUPPLY, RETURN, AND EXHAUST DUCTWORK ARE SHOWN FOR TEST AND BALANCE PURPOSES ONLY.

C. CONTRACTOR TO PROVIDE NEW INSULATION FOR THE CHILLER PUMPS AND PIPING.

D. BUILDING "02", TWO 2'X2' EXHAUSTS HOOD TO BE REMOVED AND REPLACED.

E. INTERNALLY LINED DOUBLE WALL INSULATED GALVANIZED STEEL DUCTS SHALL BE PROVIDED ON ALL MECHANICAL ROOM SUPPLY AND RETURN AIR DUCTS FOR A DISTANCE OF 20 FEET TO AND FROM THE AIR HANDLING UNIT (AHU) DISCHARGED AND RETURN AIR OPENINGS.

TEST & BALANCE NOTES:

AIRSIDE

1. TEST AND BALANCE THE SUPPLY AIR SYSTEMS, RETURN SYSTEMS, AND EXHAUST SYSTEMS, RELIEF SYSTEM AND EXFILTRATION SYSTEMS.
2. VERIFY THE TEMPERATURE CONTROL SYSTEM OPERATION.
3. TEST THE SYSTEMS FOR PROPER SOUND AND VIBRATION LEVELS.
4. ADD DEVICES AS NECESSARY TO ACHIEVE PROPER ADJUSTING AND BALANCING.
5. VERIFY THE PERFORMANCE OF ALL EQUIPMENT AND AUTOMATIC CONTROLS.
6. CHECK FOR LEAKS IN DUCTWORK. SEAL AS NECESSARY.
7. CHECK ALL DAMPERS FOR PROPER OPERATION TO INCLUDE, RELIEF DAMPERS, EXFILTRATION DAMPERS, AND GRILLES. SOME DAMPERS MAY HAVE FAILED IN THE OPEN POSITION.
8. ENSURE ALL DAMPERS ARE OPENING AND CLOSING AS REQUIRED.
10. CHECK THE EXFILTRATION GRILLES FOR PROPER OPERATION.
11. CHECK FILTERS FOR CLEANLINESS AND REPLACE IF NECESSARY.
12. CHECK FAN BELT TENSION AND FAN ROTATION.
13. IF DUCT INSULATION IS CUT TO OBTAIN ACCESS, THEN IT SHOULD BE PATCHED AND INSULATED AS NECESSARY.
15. PROPERLY SEAL ALL DUCTS.
16. IF WHILE DOING THE TEST AND BALANCE THE CONTRACTOR ENCOUNTERS ANY PARTS OF THE SYSTEM IN DESREPAIR THE CONTRACTOR IS TO REPLACE THE EQUIPMENT.
17. CONTRACTOR TO PROVIDE CLEANING OF ALL DUCTWORK.
18. ADJUST EXISTING OUTSIDE AIR LOUVERS AS REQUIRED TO OBTAIN OPTIMUM OUTSIDE AIR FOR BALANCING PURPOSES.

NOTE:
ALL DUCTWORK IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

TEST & BALANCE NOTES:

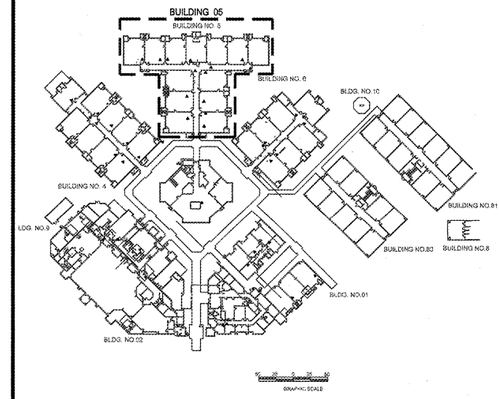
WATERSIDE

1. OPEN VALVES TO FULL POSITION, INCLUDING COIL STOP VALVES, CLOSE BYPASS VALVES, AND OPEN RETURN LINE BALANCING COCKS.
2. CLEAN STRAINERS.
3. EXAMINE WATER AND SYSTEM TO VERIFY A CLEAN AND TREATED SYSTEM.
4. CHECK PUMP ROTATION.
5. CHECK SYSTEM IS FULL OF WATER.
6. SET TEMPERATURE CONTROLS TO HAVE COILS CALL FOR FULL COOLING.
7. CHECK OPERATION OF AUTOMATIC BYPASS VALVES.
8. CHECK AND SET OPERATING TEMPERATURES OF CHILLERS TO DESIGN REQUIREMENTS.

DRAWING KEY NOTES:

① LOCATION OF NEW FAN COIL UNIT AND DUCT HEATER.

Bid Documents Only
Not For Construction



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REVISIONS

2	02/23/18	BUILDING DEPARTMENT COMMENTS

SEA CASTLE
ELEMENTARY SCHOOL
9600 MIRAMAR BOULEVARD
MIRAMAR, FLORIDA 33025

PARTIAL MECHANICAL FLOOR PLAN BUILDING 05

JOB PHASE: 100% SUBMITTAL
SBBC PROJECT: P.001632
DATE: 12.13.16
SCALE: AS SHOW
DRAWN BY: HA
CHECKED BY: E.H.
CAE PROJECT No. 2015.55

FL LICENSE PE # 39048
ERIC J. HAMMOND
LICENSE NO. 39048
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SEAL

DRAWING No.
M-105

2 PARTIAL MECHANICAL FLOOR PLAN BUILDING 05
SCALE: 1/8" = 1'-0"

1 KEY PLAN
SCALE: 1" = 100'-0"