

# MECHANICAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE FLORIDA BUILDING CODE 2020 AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING: FBC 2020, SEC. 15-01, 15-02, 15-03, 15-04, 15-05, 15-06, 15-07, 15-08, 15-09, 15-10, 15-11, 15-12, 15-13, 15-14, 15-15, 15-16, 15-17, 15-18, 15-19, 15-20, 15-21, 15-22, 15-23, 15-24, 15-25, 15-26, 15-27, 15-28, 15-29, 15-30, 15-31, 15-32, 15-33, 15-34, 15-35, 15-36, 15-37, 15-38, 15-39, 15-40, 15-41, 15-42, 15-43, 15-44, 15-45, 15-46, 15-47, 15-48, 15-49, 15-50, 15-51, 15-52, 15-53, 15-54, 15-55, 15-56, 15-57, 15-58, 15-59, 15-60, 15-61, 15-62, 15-63, 15-64, 15-65, 15-66, 15-67, 15-68, 15-69, 15-70, 15-71, 15-72, 15-73, 15-74, 15-75, 15-76, 15-77, 15-78, 15-79, 15-80, 15-81, 15-82, 15-83, 15-84, 15-85, 15-86, 15-87, 15-88, 15-89, 15-90, 15-91, 15-92, 15-93, 15-94, 15-95, 15-96, 15-97, 15-98, 15-99, 15-100, 15-101, 15-102, 15-103, 15-104, 15-105, 15-106, 15-107, 15-108, 15-109, 15-110, 15-111, 15-112, 15-113, 15-114, 15-115, 15-116, 15-117, 15-118, 15-119, 15-120, 15-121, 15-122, 15-123, 15-124, 15-125, 15-126, 15-127, 15-128, 15-129, 15-130, 15-131, 15-132, 15-133, 15-134, 15-135, 15-136, 15-137, 15-138, 15-139, 15-140, 15-141, 15-142, 15-143, 15-144, 15-145, 15-146, 15-147, 15-148, 15-149, 15-150, 15-151, 15-152, 15-153, 15-154, 15-155, 15-156, 15-157, 15-158, 15-159, 15-160, 15-161, 15-162, 15-163, 15-164, 15-165, 15-166, 15-167, 15-168, 15-169, 15-170, 15-171, 15-172, 15-173, 15-174, 15-175, 15-176, 15-177, 15-178, 15-179, 15-180, 15-181, 15-182, 15-183, 15-184, 15-185, 15-186, 15-187, 15-188, 15-189, 15-190, 15-191, 15-192, 15-193, 15-194, 15-195, 15-196, 15-197, 15-198, 15-199, 15-200, 15-201, 15-202, 15-203, 15-204, 15-205, 15-206, 15-207, 15-208, 15-209, 15-210, 15-211, 15-212, 15-213, 15-214, 15-215, 15-216, 15-217, 15-218, 15-219, 15-220, 15-221, 15-222, 15-223, 15-224, 15-225, 15-226, 15-227, 15-228, 15-229, 15-230, 15-231, 15-232, 15-233, 15-234, 15-235, 15-236, 15-237, 15-238, 15-239, 15-240, 15-241, 15-242, 15-243, 15-244, 15-245, 15-246, 15-247, 15-248, 15-249, 15-250, 15-251, 15-252, 15-253, 15-254, 15-255, 15-256, 15-257, 15-258, 15-259, 15-260, 15-261, 15-262, 15-263, 15-264, 15-265, 15-266, 15-267, 15-268, 15-269, 15-270, 15-271, 15-272, 15-273, 15-274, 15-275, 15-276, 15-277, 15-278, 15-279, 15-280, 15-281, 15-282, 15-283, 15-284, 15-285, 15-286, 15-287, 15-288, 15-289, 15-290, 15-291, 15-292, 15-293, 15-294, 15-295, 15-296, 15-297, 15-298, 15-299, 15-300, 15-301, 15-302, 15-303, 15-304, 15-305, 15-306, 15-307, 15-308, 15-309, 15-310, 15-311, 15-312, 15-313, 15-314, 15-315, 15-316, 15-317, 15-318, 15-319, 15-320, 15-321, 15-322, 15-323, 15-324, 15-325, 15-326, 15-327, 15-328, 15-329, 15-330, 15-331, 15-332, 15-333, 15-334, 15-335, 15-336, 15-337, 15-338, 15-339, 15-340, 15-341, 15-342, 15-343, 15-344, 15-345, 15-346, 15-347, 15-348, 15-349, 15-350, 15-351, 15-352, 15-353, 15-354, 15-355, 15-356, 15-357, 15-358, 15-359, 15-360, 15-361, 15-362, 15-363, 15-364, 15-365, 15-366, 15-367, 15-368, 15-369, 15-370, 15-371, 15-372, 15-373, 15-374, 15-375, 15-376, 15-377, 15-378, 15-379, 15-380, 15-381, 15-382, 15-383, 15-384, 15-385, 15-386, 15-387, 15-388, 15-389, 15-390, 15-391, 15-392, 15-393, 15-394, 15-395, 15-396, 15-397, 15-398, 15-399, 15-400, 15-401, 15-402, 15-403, 15-404, 15-405, 15-406, 15-407, 15-408, 15-409, 15-410, 15-411, 15-412, 15-413, 15-414, 15-415, 15-416, 15-417, 15-418, 15-419, 15-420, 15-421, 15-422, 15-423, 15-424, 15-425, 15-426, 15-427, 15-428, 15-429, 15-430, 15-431, 15-432, 15-433, 15-434, 15-435, 15-436, 15-437, 15-438, 15-439, 15-440, 15-441, 15-442, 15-443, 15-444, 15-445, 15-446, 15-447, 15-448, 15-449, 15-450, 15-451, 15-452, 15-453, 15-454, 15-455, 15-456, 15-457, 15-458, 15-459, 15-460, 15-461, 15-462, 15-463, 15-464, 15-465, 15-466, 15-467, 15-468, 15-469, 15-470, 15-471, 15-472, 15-473, 15-474, 15-475, 15-476, 15-477, 15-478, 15-479, 15-480, 15-481, 15-482, 15-483, 15-484, 15-485, 15-486, 15-487, 15-488, 15-489, 15-490, 15-491, 15-492, 15-493, 15-494, 15-495, 15-496, 15-497, 15-498, 15-499, 15-500, 15-501, 15-502, 15-503, 15-504, 15-505, 15-506, 15-507, 15-508, 15-509, 15-510, 15-511, 15-512

FAN SCHEDULE																
SELECTION DATA					FAN DATA			MOTOR DATA			GENERAL DATA					
TAG	SERVICE AREA	MANUF.(*)	MODEL	CONFIG.	CFM	ESP ("WG)	SONES	HP	RPM	DRIVE	VOLTAGE	WEIGHT (LBS)	DIMENSIONS L"xW"xH"	OPENING L"xW"	CONTROL	ACCESSORIES
EF-1	BATHROOMS	GREENHECK	SP-B70	CEILING	50	.2	1.1	45 WATT	563	DIRECT	120/1/60	10	14X12X8	*	LIGHT INTERLOCK	1-7

(\*) APPROVED EQUAL MANUFACTURER: COOK, TWIN-CITY, ACME, PENN

ACCESSORIES NOTES:

1. PROVIDE GRILLE COLOR PER ARCH. SPECS
2. PROVIDE BACK DRAFT DAMPER
3. LOCATE BACK DRAFT DAMPER AT DISCHARGE
4. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND INTEGRAL THERMAL OVERLOAD PROTECTION, COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY PURCHASING.
5. PROVIDE BIRD SCREEN
6. SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION ISOLATORS
7. PROVIDE WEATHERHOOD DRAIN AND CORROSION COATING.
8. PROVIDE WITH MOTORIZE DAMPER.
9. PROVIDE MOTOR SIDE GUARD
10. PROVIDE SPARK RESISTANCE CONSTRUCTION FAN

GENERAL FAN NOTES:

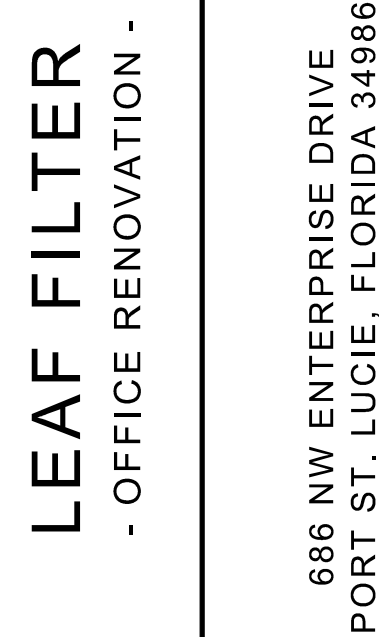
- a. MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT NORMAL POWER AND EMERGENCY POWER WIRING BY ELEC. CONTRACTOR
- b. ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32.
- c. FIELD ADJUST OPENINGS WITH STRUCTURE.
- d. ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS.
- e. COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT.
- f. SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION.
- g. ALL FANS ON ROOF SHALL BE PAINTED AS PER ARCHITECTURAL SPECS.

MECHANICAL SHEET INDEX	
SHEET#	DESCRIPTION
M0.1	MECHANICAL NOTES, LEGEND & INDEX
M2.1	MECHANICAL FLOOR PLAN

MECHANICAL LEGEND	
	SUPPLY AIR CEILING DIFFUSER
	RETURN AIR CEILING GRILLE
	WALL LOUVER / WALL DIFFUSER.
	LINEAR DIFFUSER
	MANUAL VOLUME CONTROL DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	REDUCER OR INCREASER
	FLEX DUCT
	EXISTING FLEX DUCT
	EXISTING DUCTWORK
	SUPPLY & OUTSIDE AIR SECTION (UP)
	SUPPLY & OUTSIDE AIR SECTION (DN)
	RETURN OR EXHAUST DUCT SECTION (UP)
	RETURN OR EXHAUST DUCT SECTION (DN)
	ROUND UP
	SHOE TAP DAMPER
	ROOFTOP UNIT
	SOLENOID VALVE.
RE	RELOCATE
	CEILING OR INLINE EXHAUST FAN
	SINGLE DUCT VAV BOX (3" SERVICE CLEARANCE)
	THERMOSTAT
	HUMIDISTAT
	REFRIGERANT SENSOR
	STATIC PRESSURE SENSOR
	DUCT SMOKE DETECTOR
	AP - ACCESS PANEL
	AD - ACCESS DOOR
	VCD VOLUME CONTROL DAMPER
	MOD MANUALLY OPERATED DAMPER
	SUPPLY AIR DIFFUSER OR GRILLE DESIGNATION
	RETURN/EXHAUST AIR DIFFUSER OR GRILLE DESIGNATION
	VARIABLE FREQ. DRIVE CONTROL PANEL
	SUPPLY AIR
	RETURN AIR
	DOOR UNDER CUT
	EQUIPMENT TAG
	OARTU - OUTSIDE AIR ROOF TOP UNIT
	RTU - ROOF TOP UNIT
	VAV - VARIABLE VOLUME BOX
	EF - EXHAUST FAN

NOT ALL SYMBOLS MAY APPLY TO THESE PLANS

HVAC ABBREVIATION LEGEND			
AC	AIR CONDITIONING	MCA	MINIMUM CIRCUIT AMPS (FOR WIRE SIZING)
AFF	ABOVE FINISH FLOOR	MOD	MANUALLY OPERATED DAMPER
BDD	BACK DRAFT DAMPER	MOCP	MAXIMUM OVERCURRENT PROTECTION DEVICE AMPS
CD	CONDENSATE DRAIN	NC	NOISE CRITERIA
COP	COEFFICIENT OF PERFORMANCE	O/A	OUTSIDE AIR
DB	DRY BULB	OBD	OPPOSITE BLADE DAMPER
DIA.	DIAMETER	PD	PRESSURE DROP.
E	EXISTING TO REMAIN	R	EXISTING TO BE RELOCATED
EER	ENERGY EFFICIENCY RATIO	R/A	RETURN AIR
EDH	ELECTRIC DUCT HEATER	RLA	RATED LOAD AMPS.
EF	EXHAUST FAN	SEER	STANDARD ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE	TSP	TOTAL STATIC PRESSURE
F	FILTER	VD	VOLUME CONTROL DAMPER
FD	FIRE DAMPER	WFD	VARIABLE FREQUENCY DRIVE
FLA	FULL LOAD AMPS.	WB	WET BULB
FMS	FLOW MEASURING STATION		
IPLV	INTEGRATED PART--LOAD VALUE.		
NOTE: NOT ALL SYMBOLS MAY APPLY TO THESE PLAN.			




686 NW ENTERPRISE DRIVE  
PORT ST. LUCIE, FLORIDA 34986

PROJECT NO: 22.013  
DRAWN BY: LM  
CHECKED BY: SM

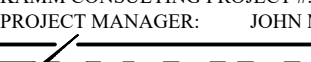
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# MECHANICAL NOTES

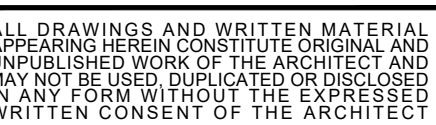
M0.1

ISSUED FOR PERMIT ONLY		05-18-22
NOT FOR PRICING OR CONSTRUCTION		
<p>KAMM CONSULTING PROJECT #: 2022-0218</p> <p>PROJECT MANAGER: JOHN MAYR</p>		
 <p>1408 Orange Avenue  Port Pierce, Florida 34950  Phone 954-448-0792  JMAJR@kammconsulting.com  Certification of Authorization #8189</p>		
<p>PRINCIPAL</p> <p>Bradley L Brown Florida License #58232</p>		<p>05-18-22</p> <p>date</p> <p>_____</p> <p>signed</p>



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PROJECT MANAGER:		JOHN MAYR
		1408 Orange Avenue Fort Pierce, Florida 34950 Phone 954.448.0792 JMYR@kammconsulting.com Certification of Authorization #01819
PRINCIPAL		05-18-22
Iradly L Brown Florida License #582332		date
		signed

000 NW ENTERPRISE DRIVE  
PORT ST. LUCIE, FLORIDA 34986

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## MECHANICAL PLAN

## M2.1