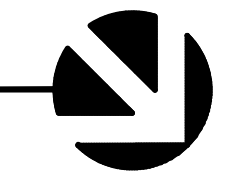


ROOF AREAS 7/A - 7/B - PARTIAL

SCALE: 1/32" = 1'-0"



WIND PRESSURE MAP NOTES:

THE WIND PRESSURE MAPS ARE BASED ON THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2014 WHICH REFERENCE THE AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE 7-10) AND THE FOLLOWING CRITERIA:

ULTIMATE WIND SPEED 149 MPH
 RISK CATEGORY II
 EXPOSURE B
 INT. PRESSURE COEFF, GCPI ± 0.18

THIS STRUCTURE IS NOT LOCATED IN A WIND-BORNE DEBRIS REGION.

COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES

ELEVATION ≤ 30'-0"

TRIBUTARY AREA (S.F.)	1	2	3
≤10	16.25 -39.94	16.25 -67.01	16.25 -100.86

ELEVATION 31'-0" TO 60'-0"

TRIBUTARY AREA (S.F.)	4	5	6
≤10	19.80 -48.68	19.80 -81.69	19.80 -122.95

ELEVATION 61'-0" TO 80'-0"

TRIBUTARY AREA (S.F.)	7	8	9
≤10	16.00 -70.77	16.00 -111.08	16.00 -151.40

ELEVATION 81'-0" TO 100'-0"

TRIBUTARY AREA (S.F.)	10	11	12
≤10	16.00 -75.43	16.00 -118.40	16.00 -161.36

ELEVATION 101'-0" TO 120'-0"

TRIBUTARY AREA (S.F.)	13	14	15
≤10	16.00 -79.46	16.00 -124.73	16.00 -169.99

COMPONENTS AND CLADDING NOMINAL WIND PRESSURES

ELEVATION ≤ 30'-0"

TRIBUTARY AREA (S.F.)	1	2	3
≤10	10.00 -23.96	10.00 -40.21	10.00 -60.52

ELEVATION 31'-0" TO 60'-0"

TRIBUTARY AREA (S.F.)	4	5	6
≤10	11.88 -29.21	11.88 -49.01	11.88 -73.77

ELEVATION 61'-0" TO 80'-0"

TRIBUTARY AREA (S.F.)	7	8	9
≤10	10.00 -42.46	10.00 -66.65	10.00 -90.84

ELEVATION 81'-0" TO 100'-0"

TRIBUTARY AREA (S.F.)	10	11	12
≤10	10.00 -45.26	10.00 -71.04	10.00 -96.82

ELEVATION 101'-0" TO 120'-0"

TRIBUTARY AREA (S.F.)	13	14	15
≤10	10.00 -47.68	10.00 -74.84	10.00 -102.00

KEY PLAN
SCALE: NTS

DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

PROFESSIONAL ENGINEER
 H. JAMES ABEL, BARBERCOURT LICENSE
 No 74027
 STATE OF FLORIDA

JOB NO.: 16032.00
DRAWN BY: LBB
CHECKED BY SA
DATE: 05-08-2017
SCALE: NTS
PLOT SCALE:

S107
 SHEET NO. 08 OF 10 SHEET(S)

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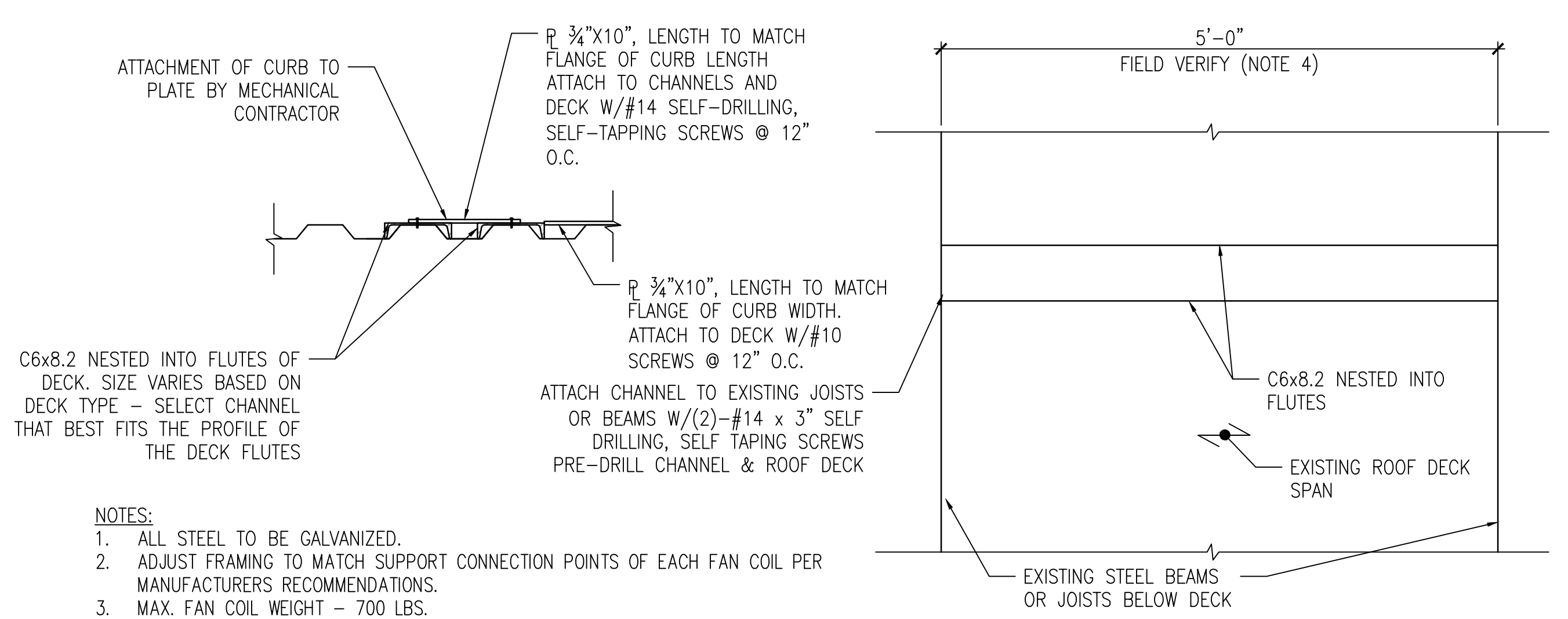
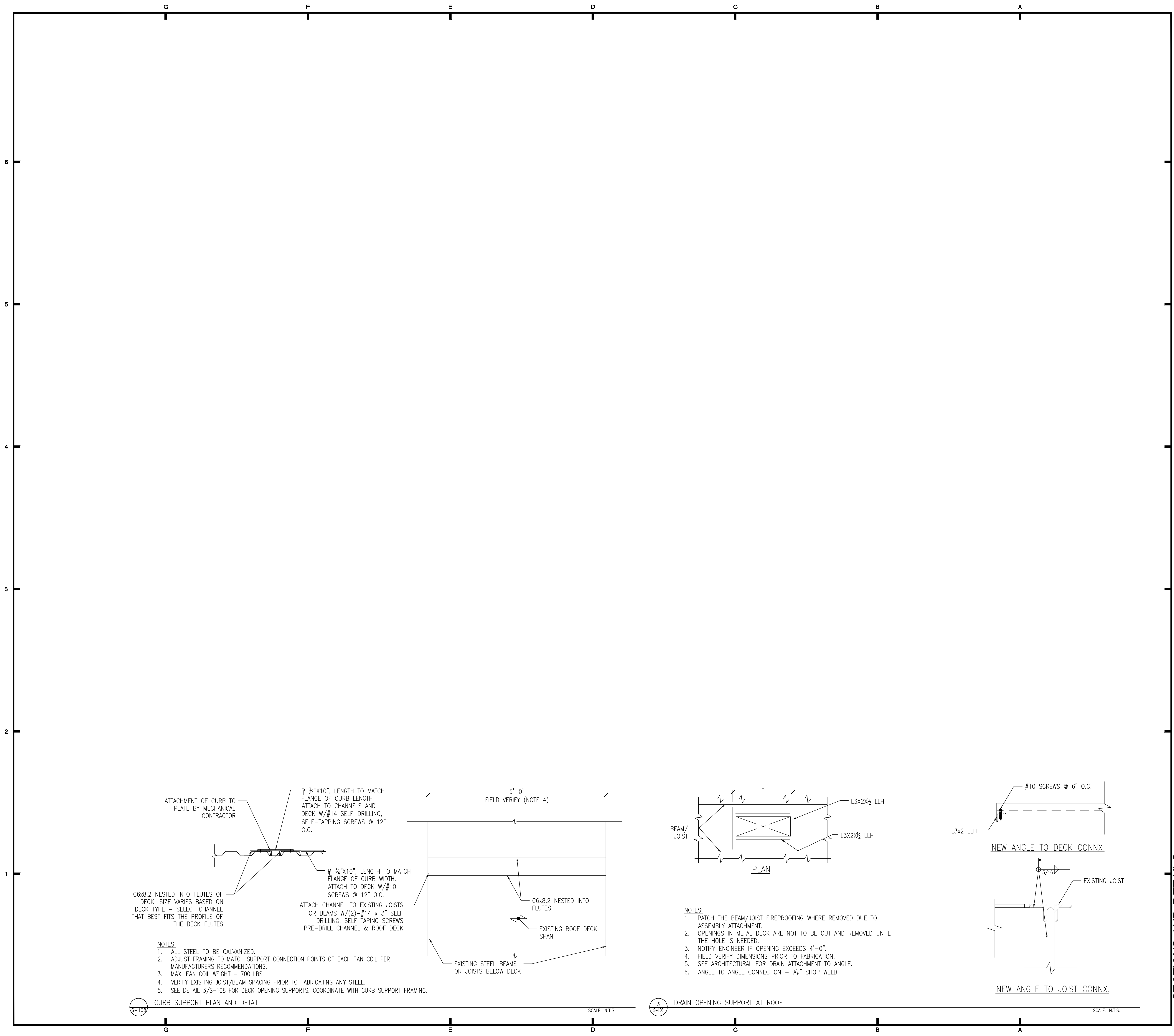
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DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

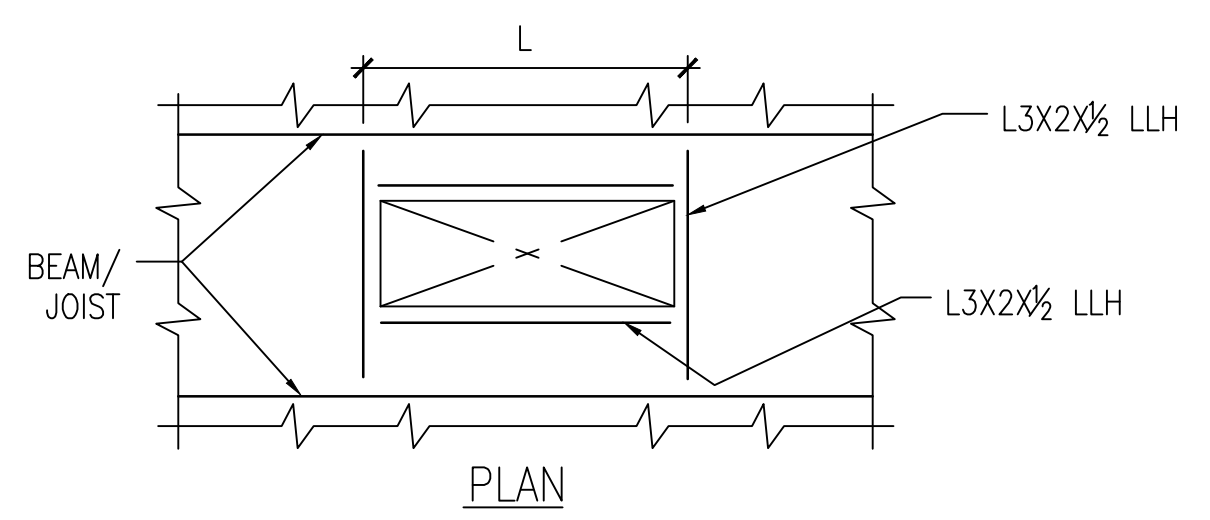
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SCALE: NTS
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 SHEET NO. 08 OF 10 SHEET(S)



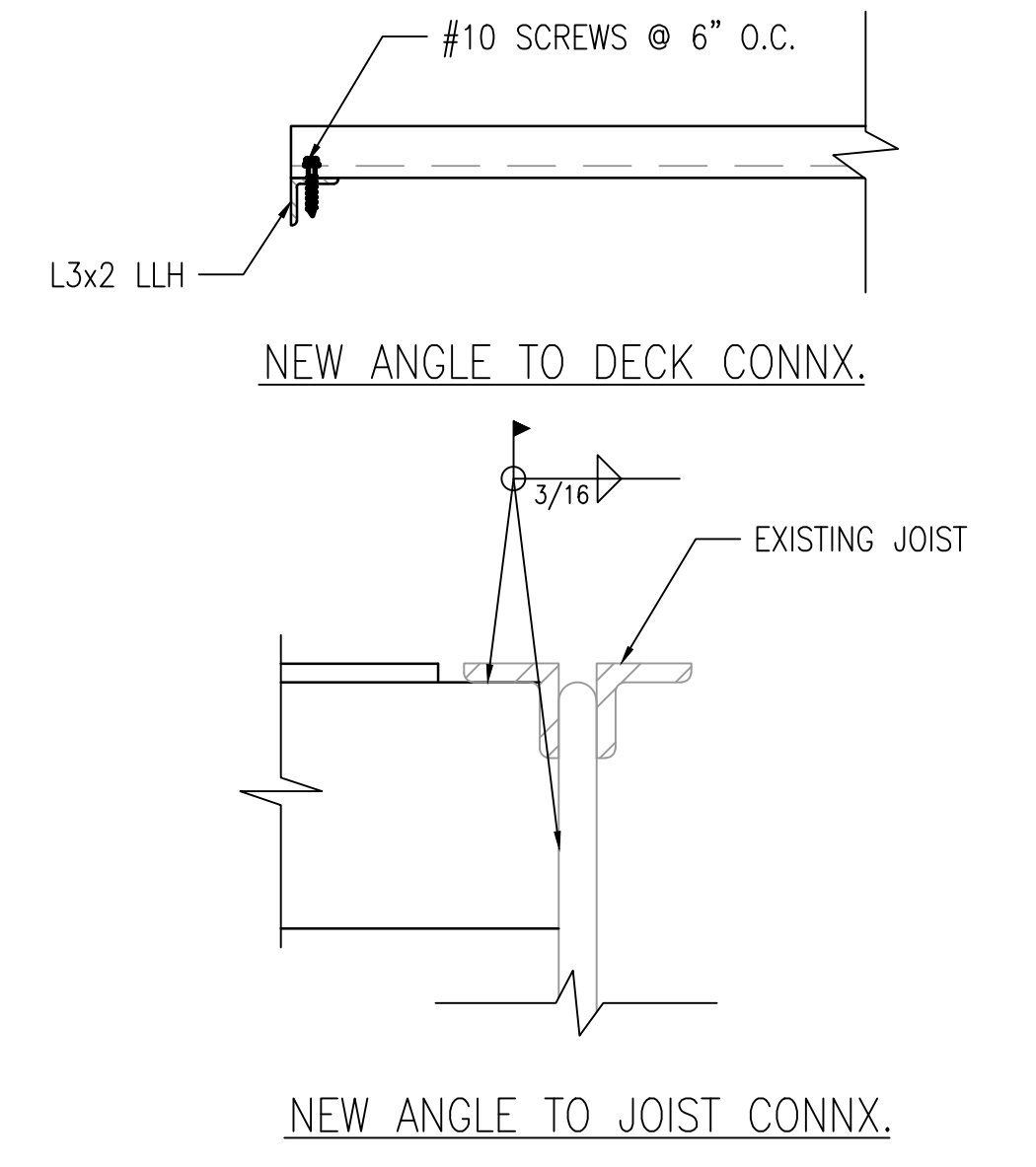
NOTES:
 1. ALL STEEL TO BE GALVANIZED.
 2. ADJUST FRAMING TO MATCH SUPPORT CONNECTION POINTS OF EACH FAN COIL PER MANUFACTURERS RECOMMENDATIONS.
 3. MAX. FAN COIL WEIGHT - 700 LBS.
 4. VERIFY EXISTING JOIST/BEAM SPACING PRIOR TO FABRICATING ANY STEEL.
 5. SEE DETAIL 3/S-108 FOR DECK OPENING SUPPORTS. COORDINATE WITH CURB SUPPORT FRAMING.

1
S-108



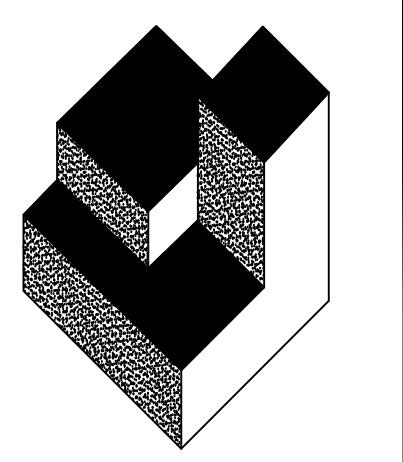
NOTES:
 1. PATCH THE BEAM/JOIST FIREPROOFING WHERE REMOVED DUE TO ASSEMBLY ATTACHMENT.
 2. OPENINGS IN METAL DECK ARE NOT TO BE CUT AND REMOVED UNTIL THE HOLE IS NEEDED.
 3. NOTIFY ENGINEER IF OPENING EXCEEDS 4'-0".
 4. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
 5. SEE ARCHITECTURAL FOR DRAIN ATTACHMENT TO ANGLE.
 6. ANGLE TO ANGLE CONNECTION - 3/8" SHOP WELD.

3
S-108



SCALE: N.T.S.

WIND PRESSURE MAP NOTES:
 THE WIND PRESSURE MAPS ARE BASED ON THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2014 WHICH REFERENCE THE AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE 7-10) AND THE FOLLOWING CRITERIA:
 ULTIMATE WIND SPEED 149 MPH
 RISK CATEGORY II
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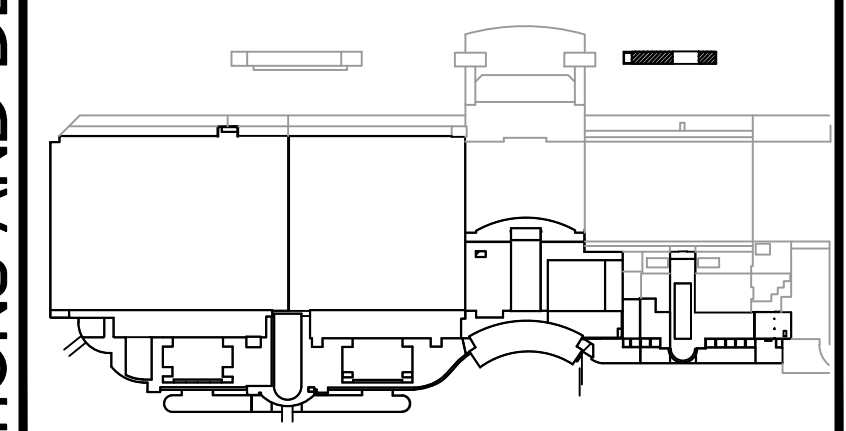
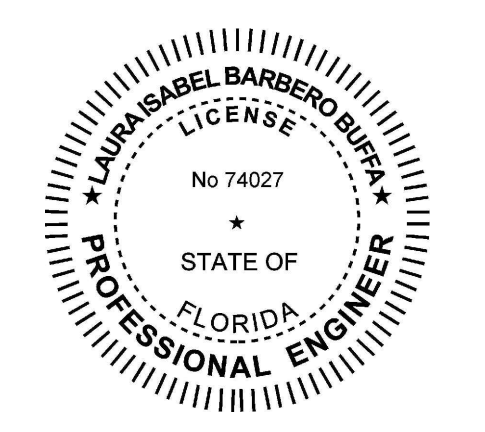


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KEY PLAN
 SCALE: N.T.S.

DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 1603200
 DRAWN BY: LBB
 CHECKED BY: SA
 DATE: 05-08-2017
 SCALE: NTS
 PLOT SCALE:

S108
 SHEET NO.:
 OF 10 SHEET(S)

MECHANICAL SYMBOLS LEGEND

DUCTWORK

TYPE	CD-1	AIR QUANTITY	AIR DISTRIBUTION DESIGNATION
			FLEXIBLE ROUND DUCT
			FIRE DAMPER AND ACCESS DOOR.
			RECTANGULAR DUCT, FIRST FIGURE IS SIDE SHOWN
	24x12		COMBINATION FIRE AND SMOKE DAMPER, WITH ACCESS DOOR.
			BACKDRAFT DAMPER
			ROUND DUCT, DIAMETER SHOWN
			MOTORIZED DAMPER
			NEW PIPING
			EXISTING PIPING
			DEMO PIPING
			DEMO PIPING
			SPIN-IN COLLAR WITH VOLUME DAMPER
			HUMIDITY SENSOR
			THERMOSTAT OR TEMPERATURE SENSOR
			SMOKE DETECTOR
			FIRE STAT
			STATIC PRESSURE SENSOR
			SMOKE DAMPER
			FIRE/SMOKE DAMPER
			FIRE DAMPER
			CARBON DIOXIDE SENSOR
			VARIABLE FREQUENCY DRIVE
			MOTOR STARTER
			ENERGY MANAGEMENT SYSTEM

FLOOR PLAN:	ENLARGED PLAN:

MECHANICAL ABBREVIATIONS

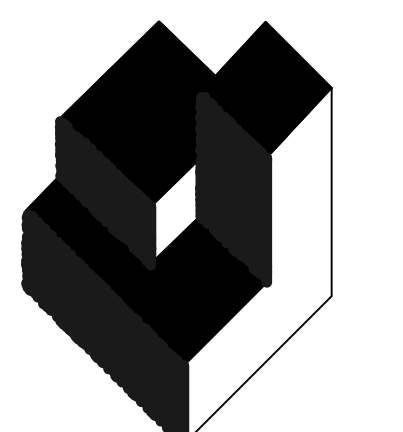
A	AIR	HR	HOURLY
AAV	AUTOMATIC AIR VENT	HAC	HEATING VENTILATING AND AIR CONDITIONING
AC	AIR CONDITIONING	HZ	HERTZ (CYCLES PER SECOND)
AD	ACCESS DOOR, AIR DRYER	ID	INSIDE DIAMETER
AFD	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT	IN	INCH
AHJ	ALUMINUM	KW	KILOWATT
ALUM	ACCESS PANEL	LDB	LEAVING DRY BULB
AP	AIR PRESSURE DROP	LWB	LEAVING WET BULB
APD	AUTOMATIC TEMPERATURE CONTROL	LOR	LIMIT OF REMOVAL
ATC	AIR VENT	MAX	MAXIMUM
AV	BACK DRAFT DAMPER	MB	MASTER BUILDING CONTROLLER
BDD	BOTTOM	MBH	THOUSAND BTU PER HOUR
BD	BACKFLOW PREVENTER	MD	MANUAL DAMPER
BTU	BRITISH THERMAL UNIT	MIN	MINIMUM
BV	BALL VALVE	N	NORTH
C	CELSIUS, DEGREE CELSIUS	NA	NOT APPLICABLE
CENT	CENTRIFUGAL	NO OR #	NUMBER, NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CHW	CHILLED WATER SUPPLY & RETURN	OA	OUTSIDE AIR
CLG	CEILING	OB	OPPOSED BLADE DAMPER
CO	CLEAN OUT	OD	OUTSIDE DIAMETER
COND	CONDENSATE	OPER	OPERATING
DB	DRY BULB, DOWN BLOW	PC	PRESSURE GAUGE
DCW	DOMESTIC COLD WATER	PSI	POUNDS PER SQUARE INCH
DEG	DEGREE	PSIG	POUNDS PER SQUARE INCH GAUGE
DELIV	DELIVERY	RA	RETURN AIR
DHW	DOMESTIC HOT WATER	REG	REGISTER
DISC	DISCONNECT	RF	RETURN FAN
DN	DOWN	RG	RETURN GRILLE
DPS	DIFFERENTIAL PRESSURE SWITCH	RH	RELATIVE HUMIDITY
EA	EXHAUST AIR, EACH	RHC	REHEAT COIL
EAT	ENTERING AIR TEMPERATURE	RM	ROOM
EBB	ENTERING DRY BULB	SA	SUPPLY AIR
EDH	ELECTRIC DUCT HEATER	SF	SUPPLY FAN
EF	EXHAUST FAN	S/FD	SMOKE/FIRE DAMPER
EFF	EFFICIENCY	T	THERMOSTAT
ELEV	ELEVATION	TEC	TERMINAL EQUIPMENT CONTROLLER
EMS	ENERGY MANAGEMENT SYSTEM	TEMP	TEMPERATURE
ENT	ENTERING	TS	TEMPERATURE SENSOR
EWB	ENTERING WET BULB	TYP	TYPICAL
(E)	EXISTING	V	VENT, VOLT
F	FAHRENHEIT	VD	VOLUME DAMPER
FD	FIRE DAMPER, FLOOR DRAIN	VERT	VERTICAL
FFM	FEET PER MINUTE	WB	WET BULB
FPS	FEET PER SECOND	WPD	WATER PRESSURE DROP
F/SD	FIRE/SMOKE DAMPER	WMS	WIRE MESH SCREEN
FT	FEET	1WB	ONE WAY BLOW
GPH	GALLONS PER HOUR	2WB	TWO WAY BLOW
OPM	GALLONS PER MINUTE	3WB	THREE WAY BLOW
HHWSAR	HEATING HOT WATER SUPPLY&RETURN		
HOA	HAND-OFF-AUTOMATIC		
HP	HORSEPOWER, HEAT PUMP		
HPU	HEAT PUMP UNIT		

MECHANICAL GENERAL NOTES

- THE CONTRACTOR SHALL DEMONSTRATE EACH MECHANICAL SYSTEMS PERFORMANCE IN THE PRESENCE OF THE ARCHITECT AND THE OWNER'S PROJECT MANAGER, BOTH BEFORE AND AFTER THE WORK SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL MAINTAIN AN ACTIVE LOG OF ALL TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL SYSTEM TESTING. THE CONTRACTOR SHALL PAY FOR ANY REQUIRED REPAIRS INCURRED DURING THE PROJECT, IF IN THE OPINION OF THE ARCHITECT AND THE OWNERS PROJECT MANAGER THE SYSTEMS ARE DAMAGED.
- IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF ARCHITECT/ ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT/ENGINEER WILL REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.
- THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS BEFORE SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE HIMSELF WITH THE PLANS.
- UNFORESEEN CONDITIONS MAY EXIST AND WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAYBE NECESSARY. IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT. SUCH DEVIATIONS MAY NOT BE CONSIDERED AS PART OF THIS CONTRACT WHEN PROPERLY DOCUMENTED IN WRITING. THE PLANS ARE NOT COMPLETELY TO SCALE.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE AND ALL LOCAL CODES.
- VERIFY EXISTING CONDITIONS IN FIELD AND COORDINATE WITH ALL TRADES INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL, STRUCTURAL, LIGHTING, POWER, SYSTEMS, PLUMBING, FIRE PROTECTION AND OTHER EXISTING AND NEW WORK.
- INTERRUPTION OF EXISTING SERVICES SHALL BE MINIMAL AND SHALL BE FULLY COORDINATED WITH THE OWNER AND ALL TRADES IN ADVANCE TO SCHEDULE ALL INTERRUPTIONS DURING NON-CRITICAL TIMES.
- DISCONNECT SWITCHES REQUIRED FOR THE MECHANICAL EQUIPMENT SHALL BE PROVIDED AS SPECIFIED UNDER DIVISION 16 ELECTRICAL.
- ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS REQUIRED BY APPLICABLE CODES. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION. SUPPORT ALL OBJECTS FROM STRUCTURE WITHOUT PENETRATING THE CEILING. ALL SUPPORTS ARE TO BE STAINLESS STEEL.
- REFER TO TYPICAL DETAILS FOR INSTALLATION OF EQUIPMENT.
- CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE COORDINATED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THE INTENT OF THE DRAWINGS ARE TO REMOVE ALL EXISTING CONDENSATE PIPING AND PROVIDE NEW CONDENSATE PIPING UTILIZING THE EXISTING ROUTING. CONDENSATE PIPING SHALL BE OF COPPER MATERIAL AND INSULATED. THE CONTRACTOR SHALL FULLY COORDINATE WITH THE MECHANICAL EQUIPMENT TO ENSURE ADEQUATE CLEARANCE IS PROVIDED FOR CONDENSATE PIPING.
- ALL CONDENSATE DRAIN LINES SHALL BE INSULATED AND INSTALLED WITH A 'P' TRAP AT THE UNIT WITH A MINIMUM DEPTH OF 2" OR PER MANUFACTURER'S INSTRUCTIONS, WHICHEVER IS GREATER.
- UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
- ALL DUCTWORK REQUIRED TO RECONNECT THE EXISTING MECHANICAL EQUIPMENT SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 5TH EDITION (2014), MECHANICAL, NFPA 90A AND 90B.
- BEFORE STARTING ANY WORK, VERIFY AND COORDINATE ALL DIMENSIONS IN FIELD, DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
- ALL CONTROL WIRING AND HARDWARE TO DISCONNECT AND RECONNECT THE EXISTING MECHANICAL EQUIPMENT CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 15 MECHANICAL OF THESE CONTRACT DOCUMENTS.
- ALL HVAC EQUIPMENT LOCATIONS SHALL BE COORDINATED AND APPROVED BY THE ARCHITECT AND THE OWNER REPRESENTATIVE.
- ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE GALVANIZED STEEL. DUCTWORK SHALL BE SUPPORTED WITH MINIMUM 1" SHEET METAL STRIPS AT 5'-0" ON CENTERS. DUCTWORK REPLACEMENT, DUCTWORK SUPPORTS AND NEW FASTENERS REQUIRED TO REMOVE, STORE, AND REINSTALL THE EXISTING MECHANICAL EQUIPMENT SHALL BE INCLUDED IN THIS CONTRACT. SS FASTENERS SHALL BE USED IN ALL CASES.
- THE CONTRACTOR SHALL INCLUDE THE COST OF REPLACING AND PATCHING ANY EXISTING INSULATION DAMAGED BY REMOVING, TEMPORARILY STORING AND REINSTALLING EXISTING MECHANICAL EQUIPMENT. THE THERMAL AND MOISTURE INTEGRITY OF THE EXISTING INSULATION SHALL BE RESTORED TO NEW CONDITION AT THE POINT OF CONNECTION AND ANY AREA WITHIN ONE FOOT OF THE POINT OF CONNECTION.
- THE CONTRACTOR SHALL INCLUDE THE COST OF REPLACING FLEXIBLE DUCTWORK CONNECTIONS AT ALL MECHANICAL EQUIPMENT CONNECTED TO DUCTWORK.
- THE CONTRACTOR SHALL INCLUDE THE COST OF PROTECTING OPENINGS IN THE ROOF CREATED BY THE REMOVAL OF EXISTING MECHANICAL EQUIPMENT AS PART OF THIS CONTRACT. THE PROTECTION SHALL CONSIST OF WATERPROOF COVERS, SECURED TO THE EXISTING CURBS, AND PROTECTED AGAINST WIND DAMAGE.
- THE CONTRACTOR SHALL INCLUDE THE COST OF PROTECTING BOTH THE NEW AND EXISTING ROOFING AGAINST DAMAGE WHEN TEMPORARILY STORING REMOVED MECHANICAL EQUIPMENT AND/OR OTHER MATERIALS. THE CONTRACTOR SHALL PROVIDE STANDS OR OTHER METHODS TO PREVENT ROOF DAMAGE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT.
- THE CONTRACTOR SHALL STORE REMOVED MECHANICAL EQUIPMENT AND MATERIALS IN SUCH A MANNER AS TO NOT STRUCTURALLY OVERLOAD ANY SECTION OF THE ROOF. CONSULT WITH STRUCTURAL ENGINEER TO DETERMINE SUITABLE POINTS OF STORAGE.

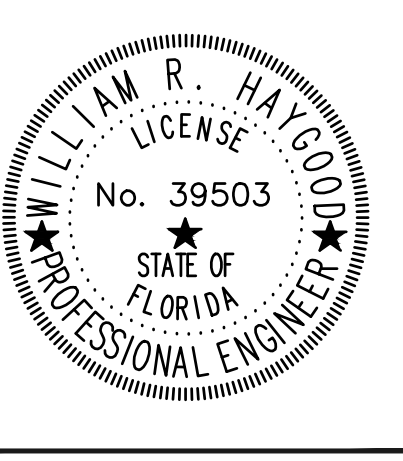
MECHANICAL SCOPE OF WORK

- THIS BRIEF DESCRIPTION OF THE SCOPE OF WORK IS NOT ALL INCLUSIVE AND IS COMPLEMENTED BY THE SET OF CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL REMOVE, TEMPORARILY STORE, AND REINSTALL ALL EXISTING MECHANICAL EQUIPMENT LOCATED ON THE ROOF OF THE ORANGE COUNTY CONVENTION CENTER WEST BUILDING AS SHOWN ON THE DOCUMENTS. INCLUDE THE COST OF INCIDENTAL DUCTWORK, INSULATION, SUPPORTS, FASTENERS, AND OTHER MATERIALS AND LABOR REQUIRED TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL TEST ALL EXISTING MECHANICAL EQUIPMENT PRIOR TO REMOVAL AND AFTER INSTALLATION AS NOTED ABOVE.
- THE CONTRACTOR SHALL PHASE THE WORK IN CONJUNCTION WITH THE ROOFING WORK TO HAVE THE LEAST IMPACT ON THE OPERATION OF THE FACILITY. FOR EACH PIECE OF MECHANICAL EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST TWO WEEKS IN ADVANCE THE INTENDED EQUIPMENT TO BE DISCONNECTED AND THE MAXIMUM DURATION OF THE DISCONNECTION. THE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO DETERMINE THE LENGTH OF TIME THE PHASED WORK WILL REQUIRE.



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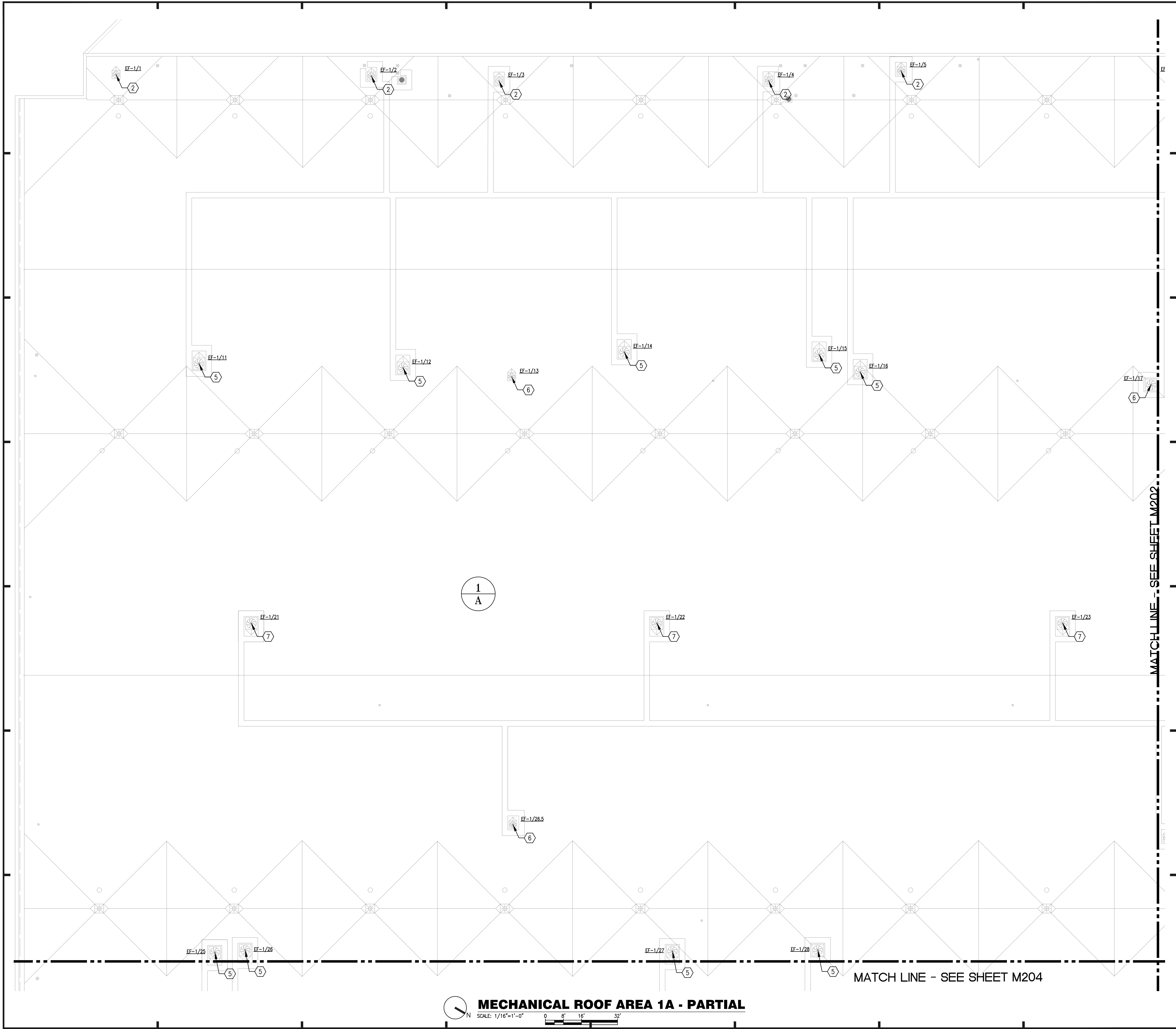
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JOB NO.: 16032.00
DRAWN BY: WFH
CHECKED BY: JEB
DATE: 05-08-2017
SCALE:
PLOT SCALE:

M-001
SHEET NO.:
000F OF 06 SHEET(S)

MECHANICAL SYMBOLS LEGEND AND GENERAL NOTES



GENERAL NOTES:

- a. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014), AND THE FLORIDA BUILDING CODE 5TH EDITION (2014).
- b. ALL EXISTING ROOF MOUNTED HVAC EQUIPMENT SHALL BE DISCONNECTED FROM POWER AND ANY EXISTING DUCTWORK CONNECTIONS, REMOVED AND TEMPORARILY STORED, AND REINSTALLED ON EXISTING ROOF CURBS AND RESTORE CONNECTIONS TO ANY EXISTING DUCTWORK. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL WORK.
- c. ALL PLAN KEY NOTES DO NOT APPLY TO EVERY DRAWING.

PLAN KEY NOTES:

1. EXHAUST FAN, ~70x70 CURB, SEE GENERAL NOTE b.
2. EXHAUST FAN, ~24x24 CURB, SEE GENERAL NOTE b.
3. EXHAUST FAN, ~35x35 CURB, SEE GENERAL NOTE b.
4. EXHAUST FAN, ~76x76 CURB, SEE GENERAL NOTE b.
5. EXHAUST FAN, ~55x55 CURB, SEE GENERAL NOTE b.
6. EXHAUST FAN, ~42x42 CURB, SEE GENERAL NOTE b.
7. EXHAUST FAN, ~96x96 CURB, SEE GENERAL NOTE b.
8. VENT, ~84x84 CURB, SEE GENERAL NOTE b.
9. VENT, ~48x48 CURB, SEE GENERAL NOTE b.
10. VENT, ~42x42 CURB, SEE GENERAL NOTE b.
11. VENT, ~36x36 CURB, SEE GENERAL NOTE b.
12. VENT, ~69x69 CURB, SEE GENERAL NOTE b.
13. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
14. VENT, ~78x78 CURB, SEE GENERAL NOTE b.
15. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
16. EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
17. EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
18. VENT, ~255x143 CURB, SEE GENERAL NOTE b.
- 19.

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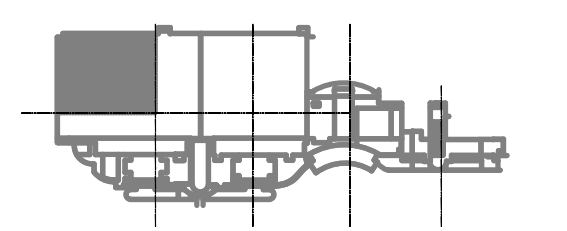
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 MEP CONSULTING ENGINEERS
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MECHANICAL PARTIAL PLAN - AREAS 1A
 DESIGNATED REPAIRS AND REPLACEMENT OF
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
 9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
 DRAWN BY: WFH
 CHECKED BY: JEB
 DATE: 05-08-2017
 SCALE: 1/16" = 1'-0"
 PLOT SCALE:

M-201
 SHEET NO.:
 61 OF 106 SHEET(S)

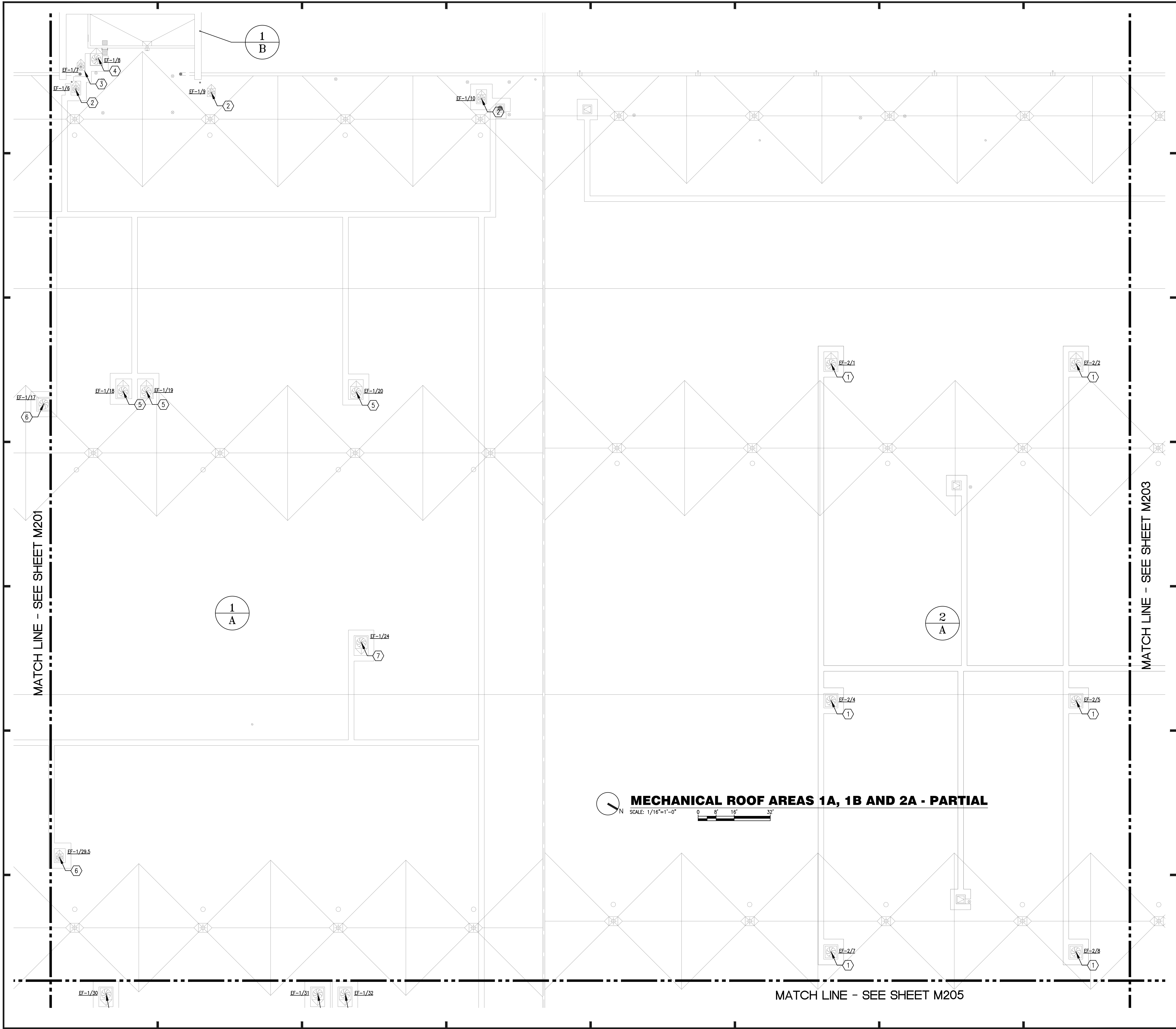


KEY PLAN

MECHANICAL ROOF AREA 1A - PARTIAL
 SCALE: 1/16"=1'-0"
 0 8' 16' 32'

MATCHLINE - SEE SHEET M202

MATCH LINE - SEE SHEET M204



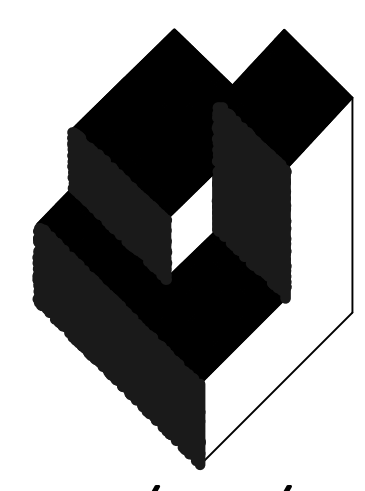
MECHANICAL ROOF AREAS 1A, 1B AND 2A - PARTIAL
 SCALE: 1/16"=1'-0" 0 8' 16' 32'

GENERAL NOTES:

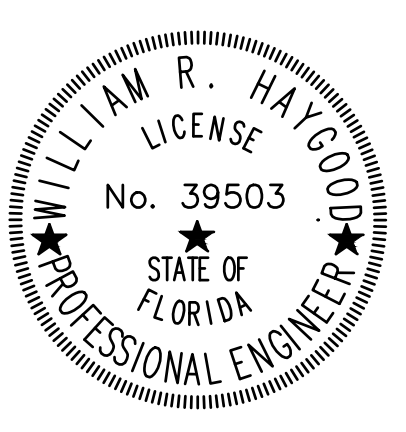
- a. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014), AND THE FLORIDA BUILDING CODE 5TH EDITION (2014).
- b. ALL EXISTING ROOF MOUNTED HVAC EQUIPMENT SHALL BE DISCONNECTED FROM POWER AND ANY EXISTING DUCTWORK CONNECTIONS, REMOVED AND TEMPORARILY STORED; AND REINSTALLED ON EXISTING ROOF CURBS AND RESTORE CONNECTIONS TO ANY EXISTING DUCTWORK. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL WORK.
- c. ALL PLAN KEY NOTES DO NOT APPLY TO EVERY DRAWING.

PLAN KEY NOTES:

1. EXHAUST FAN, ~70x70 CURB, SEE GENERAL NOTE b.
2. EXHAUST FAN, ~24x24 CURB, SEE GENERAL NOTE b.
3. EXHAUST FAN, ~35x35 CURB, SEE GENERAL NOTE b.
4. EXHAUST FAN, ~76x76 CURB, SEE GENERAL NOTE b.
5. EXHAUST FAN, ~55x55 CURB, SEE GENERAL NOTE b.
6. EXHAUST FAN, ~42x42 CURB, SEE GENERAL NOTE b.
7. EXHAUST FAN, ~96x96 CURB, SEE GENERAL NOTE b.
8. VENT, ~84x84 CURB, SEE GENERAL NOTE b.
9. VENT, ~48x48 CURB, SEE GENERAL NOTE b.
10. VENT, ~42x42 CURB, SEE GENERAL NOTE b.
11. VENT, ~36x36 CURB, SEE GENERAL NOTE b.
12. VENT, ~69x69 CURB, SEE GENERAL NOTE b.
13. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
14. VENT, ~78x78 CURB, SEE GENERAL NOTE b.
15. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
16. EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
17. EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
18. VENT, ~25x143 CURB, SEE GENERAL NOTE b.
- 19.



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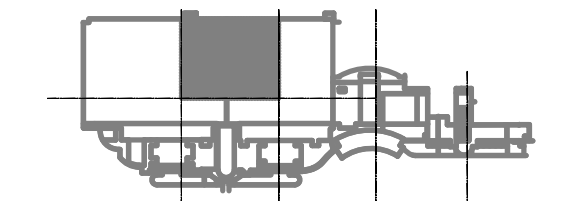
REVISIONS		
NO.	DATE	BY:



DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
 9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

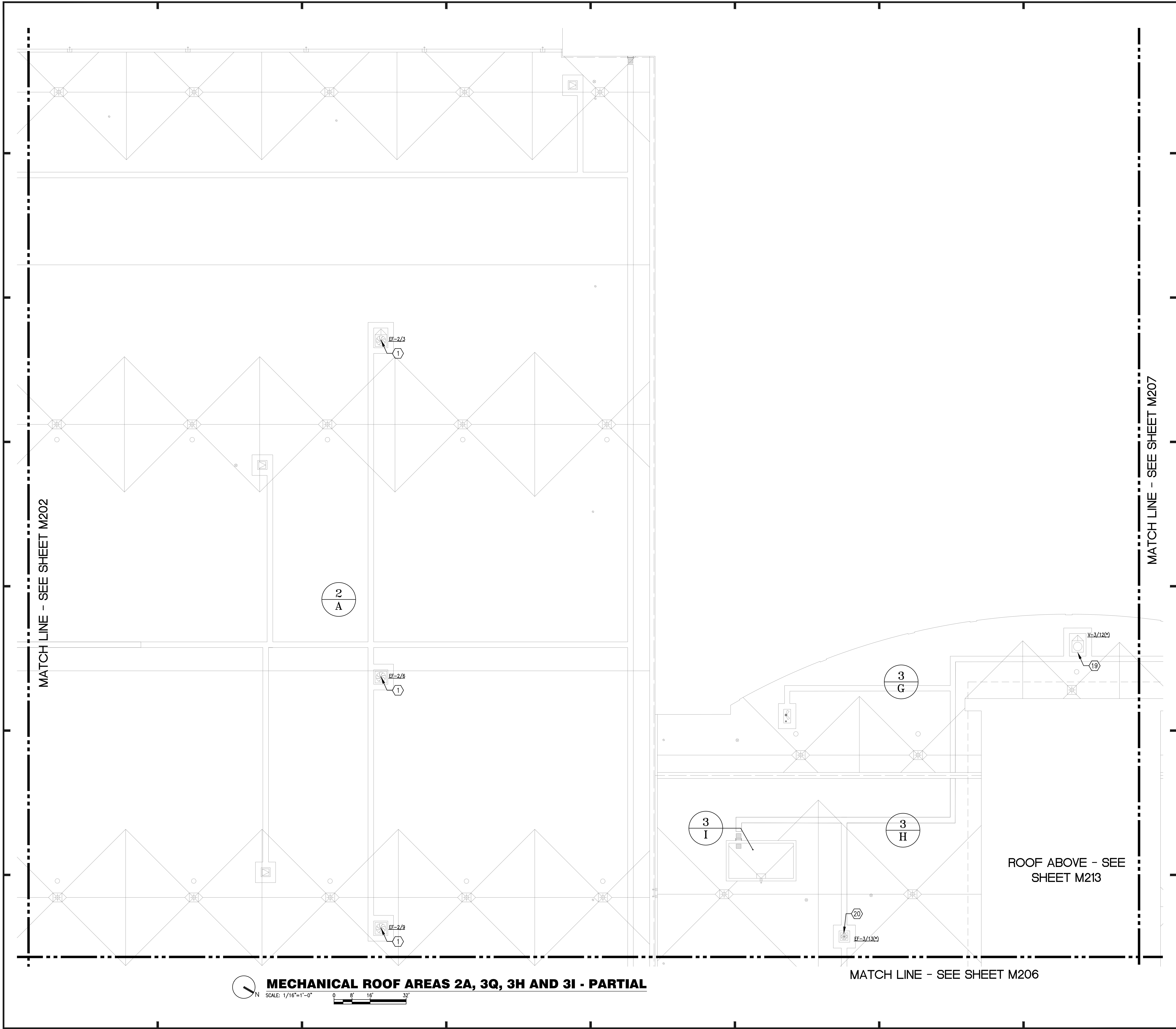
JOB NO.: 16032.00
 DRAWN BY: WFH
 CHECKED BY: JEB
 DATE: 05-08-2017
 SCALE: 1/16" = 1'-0"
 PLOT SCALE:

M-202
 SHEET NO.: 62 OF 136 SHEET(S)



KEY PLAN

MECHANICAL PARTIAL PLAN - AREAS 1A, 1B, 2A



MECHANICAL ROOF AREAS 2A, 3G, 3H AND 3I - PARTIAL

SCALE: 1/16"=1'-0" 0 8' 16' 32'

GENERAL NOTES:

- a. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014), AND THE FLORIDA BUILDING CODE 5TH EDITION (2014).
- b. ALL EXISTING ROOF MOUNTED HVAC EQUIPMENT SHALL BE DISCONNECTED FROM POWER AND ANY EXISTING DUCTWORK CONNECTIONS; REMOVED AND TEMPORARILY STORED; AND REINSTALLED ON EXISTING ROOF CURBS AND RESTORE CONNECTIONS TO ANY EXISTING DUCTWORK. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL WORK.
- c. ALL PLAN KEY NOTES DO NOT APPLY TO EVERY DRAWING.

PLAN KEY NOTES: ①

1. EXHAUST FAN, ~70x70 CURB, SEE GENERAL NOTE b.
2. EXHAUST FAN, ~24x24 CURB, SEE GENERAL NOTE b.
3. EXHAUST FAN, ~35x35 CURB, SEE GENERAL NOTE b.
4. EXHAUST FAN, ~76x76 CURB, SEE GENERAL NOTE b.
5. EXHAUST FAN, ~55x55 CURB, SEE GENERAL NOTE b.
6. EXHAUST FAN, ~42x42 CURB, SEE GENERAL NOTE b.
7. EXHAUST FAN, ~96x96 CURB, SEE GENERAL NOTE b.
8. VENT, ~84x84 CURB, SEE GENERAL NOTE b.
9. VENT, ~48x48 CURB, SEE GENERAL NOTE b.
10. VENT, ~42x42 CURB, SEE GENERAL NOTE b.
11. VENT, ~36x36 CURB, SEE GENERAL NOTE b.
12. VENT, ~69x69 CURB, SEE GENERAL NOTE b.
13. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
14. VENT, ~78x78 CURB, SEE GENERAL NOTE b.
15. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
16. EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
17. EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
18. VENT, ~255x143 CURB, SEE GENERAL NOTE b.
19. *UNIT, SEE GENERAL NOTE b.
20. *EXHAUST FAN, SEE GENERAL NOTE b.

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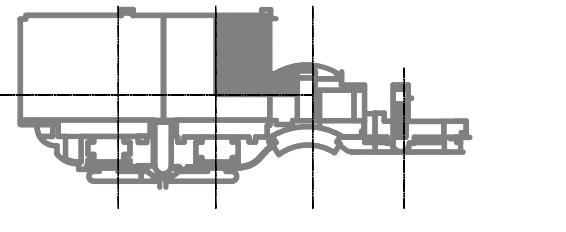
SGM ENGINEERING
 MEP CONSULTING ENGINEERS
 105 LAKE MIDDLEBROOK LANE
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DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
 9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

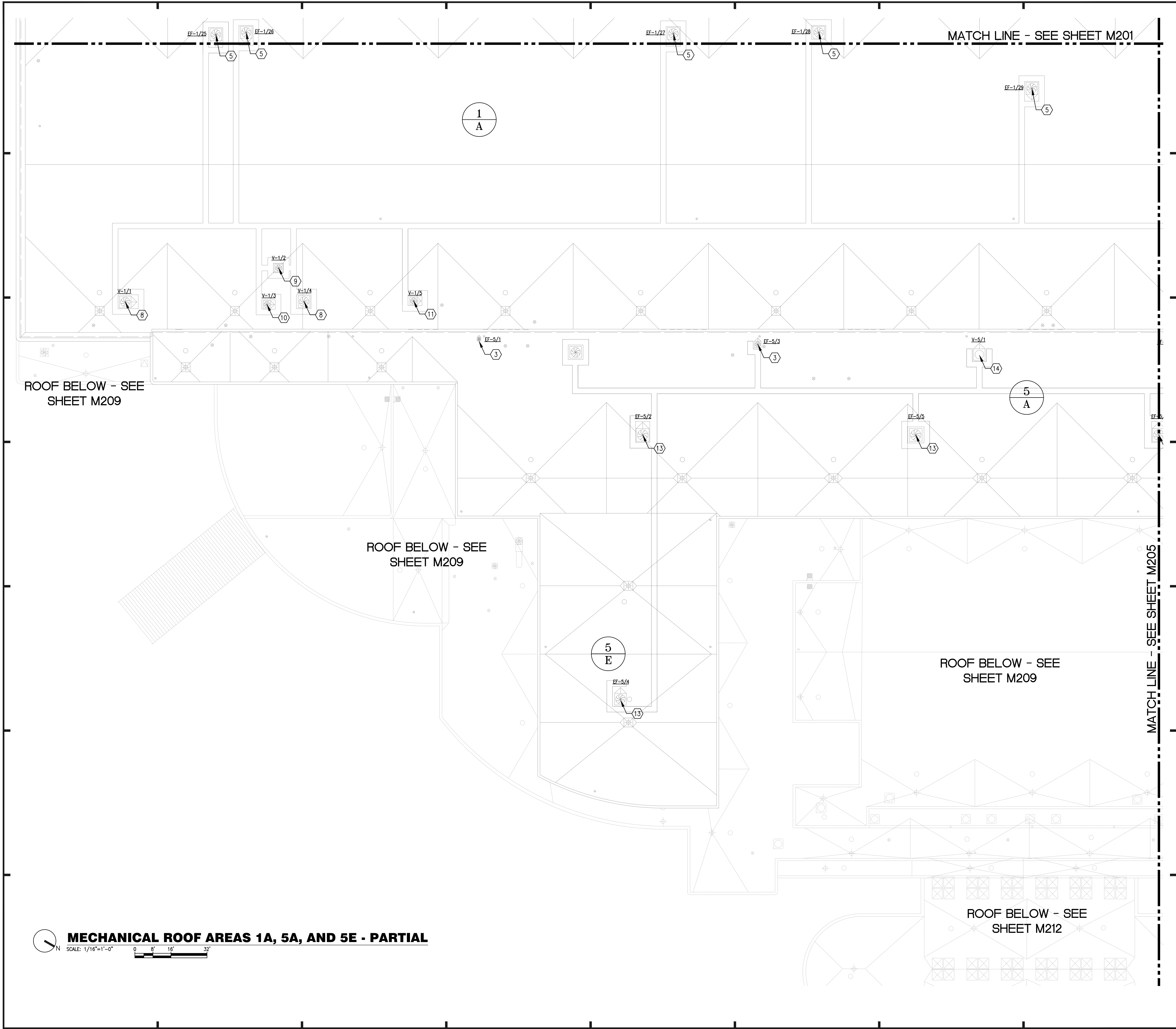
JOB NO.: 16032.00
 DRAWN BY: WFH
 CHECKED BY: JEB
 DATE: 05-08-2017
 SCALE: 1/16" = 1'-0"
 PLOT SCALE:

M-203
 SHEET NO.:
 60 OF 106 SHEET(S)



KEY PLAN

MECHANICAL PARTIAL PLAN - AREAS 2A, 3G, 3H, 3I



GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014), AND THE FLORIDA BUILDING CODE 5TH EDITION (2014).
- ALL EXISTING ROOF MOUNTED HVAC EQUIPMENT SHALL BE DISCONNECTED FROM POWER AND ANY EXISTING DUCTWORK CONNECTIONS; REMOVED AND TEMPORARILY STORED, AND REINSTALLED ON EXISTING ROOF CURBS AND RESTORE CONNECTIONS TO ANY EXISTING DUCTWORK. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL WORK.
- ALL PLAN KEY NOTES DO NOT APPLY TO EVERY DRAWING.

- PLAN KEY NOTES: (1)**
- EXHAUST FAN, ~70x70 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~24x24 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~35x35 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~76x76 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~55x55 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~42x42 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~96x96 CURB, SEE GENERAL NOTE b.
 - VENT, ~84x84 CURB, SEE GENERAL NOTE b.
 - VENT, ~48x48 CURB, SEE GENERAL NOTE b.
 - VENT, ~42x42 CURB, SEE GENERAL NOTE b.
 - VENT, ~36x36 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
 - VENT, ~69x69 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
 - EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
 - VENT, ~25x143 CURB, SEE GENERAL NOTE b.

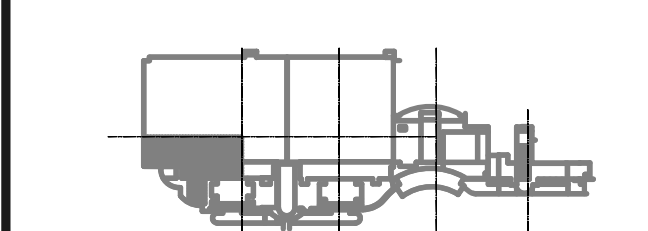
ROOF BELOW - SEE SHEET M209

ROOF BELOW - SEE SHEET M209

ROOF BELOW - SEE SHEET M209

ROOF BELOW - SEE SHEET M212

MECHANICAL ROOF AREAS 1A, 5A, AND 5E - PARTIAL
 SCALE: 1/16"=1'-0"
 0 8' 16' 32'



KEY PLAN

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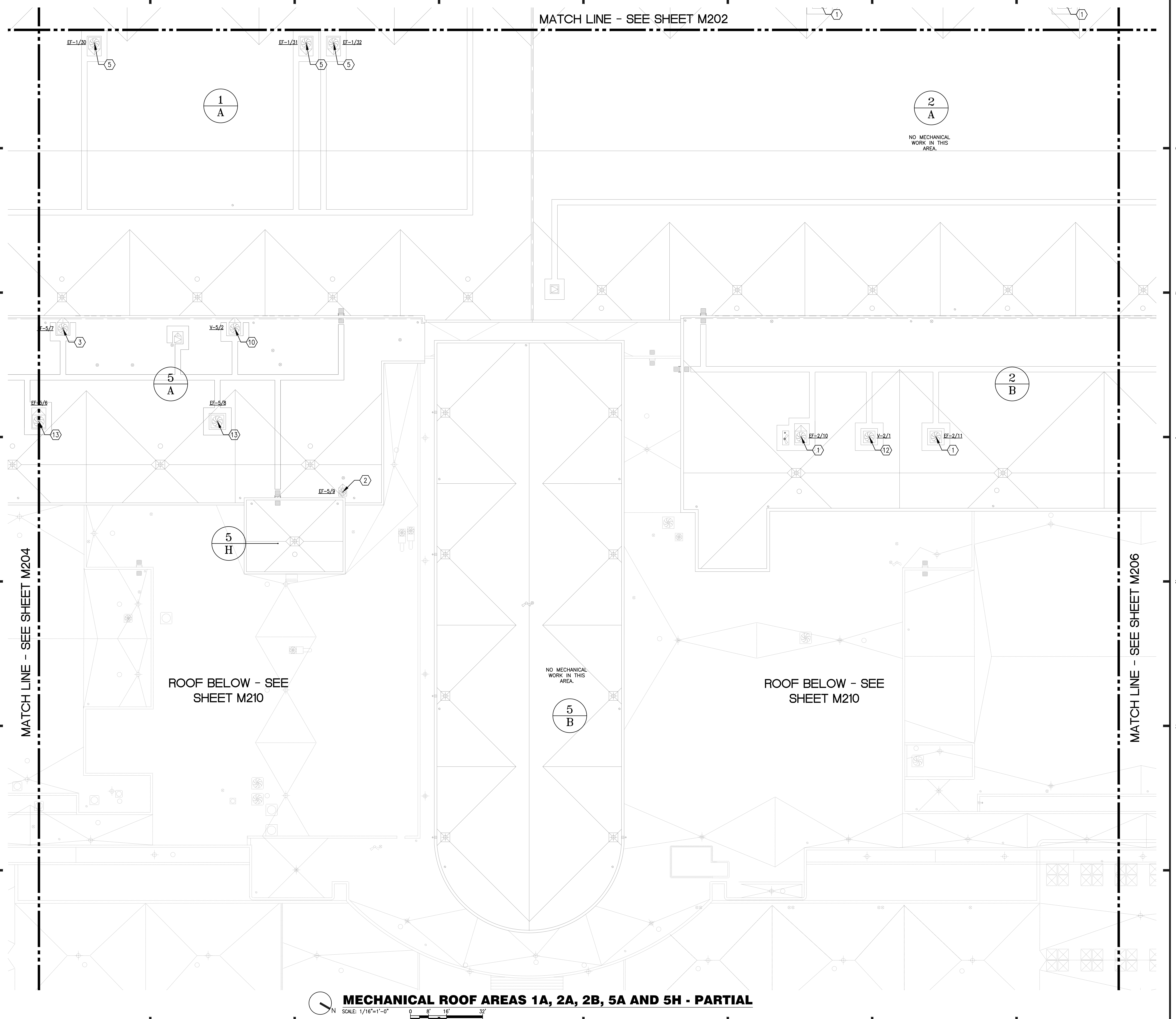
BASE CONSULTANTS
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 1834 EAST ORANGE STREET
 ORLANDO, FL 32817

MECHANICAL PARTIAL PLAN - AREAS 1A, 5A, 5E
 DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
 9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
 DRAWN BY: WFH
 CHECKED BY: JEB
 DATE: 05-08-2017
 SCALE: 1/16" = 1'-0"
 PLOT SCALE:

M-204
 SHEET NO.:
 640P 136 SHEET(S)

MATCH LINE - SEE SHEET M202

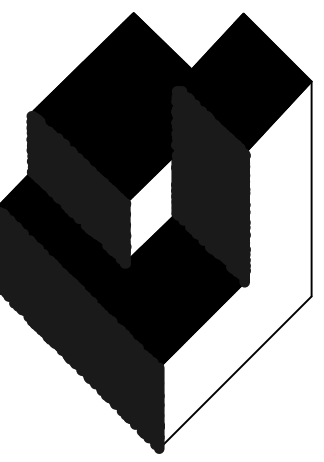


GENERAL NOTES:

- a. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014), AND THE FLORIDA BUILDING CODE 5TH EDITION (2014).
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- c. ALL PLAN KEY NOTES DO NOT APPLY TO EVERY DRAWING.

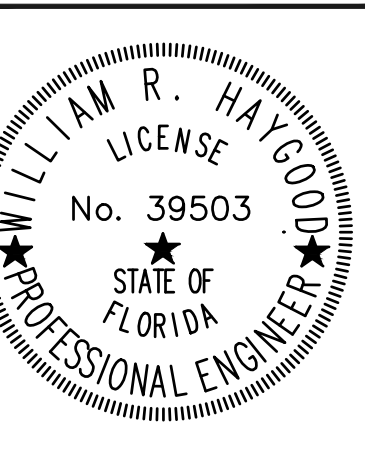
PLAN KEY NOTES:

1. EXHAUST FAN, ~70x70 CURB, SEE GENERAL NOTE b.
2. EXHAUST FAN, ~24x24 CURB, SEE GENERAL NOTE b.
3. EXHAUST FAN, ~35x35 CURB, SEE GENERAL NOTE b.
4. EXHAUST FAN, ~76x76 CURB, SEE GENERAL NOTE b.
5. EXHAUST FAN, ~55x55 CURB, SEE GENERAL NOTE b.
6. EXHAUST FAN, ~42x42 CURB, SEE GENERAL NOTE b.
7. EXHAUST FAN, ~96x96 CURB, SEE GENERAL NOTE b.
8. VENT, ~84x84 CURB, SEE GENERAL NOTE b.
9. VENT, ~48x48 CURB, SEE GENERAL NOTE b.
10. VENT, ~42x42 CURB, SEE GENERAL NOTE b.
11. VENT, ~36x36 CURB, SEE GENERAL NOTE b.
12. VENT, ~69x69 CURB, SEE GENERAL NOTE b.
13. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
14. VENT, ~78x78 CURB, SEE GENERAL NOTE b.
15. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
16. EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
17. EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
18. VENT, ~255x143 CURB, SEE GENERAL NOTE b.
- 19.



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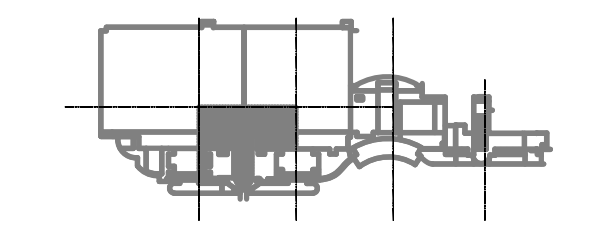
REVISIONS		
NO.	DATE	BY:



DESIGNATED REPAIRS AND REPLACEMENT OF:
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ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
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 DATE: 05-08-2017
 SCALE: 1/16" = 1'-0"
 PLOT SCALE:

M-205
 SHEET NO.:
 650P 106 SHEET(S)



KEY PLAN

MECHANICAL ROOF AREAS 1A, 2A, 2B, 5A AND 5H - PARTIAL
 SCALE: 1/16"=1'-0"
 0 8' 16' 32'

MATCH LINE - SEE SHEET M204

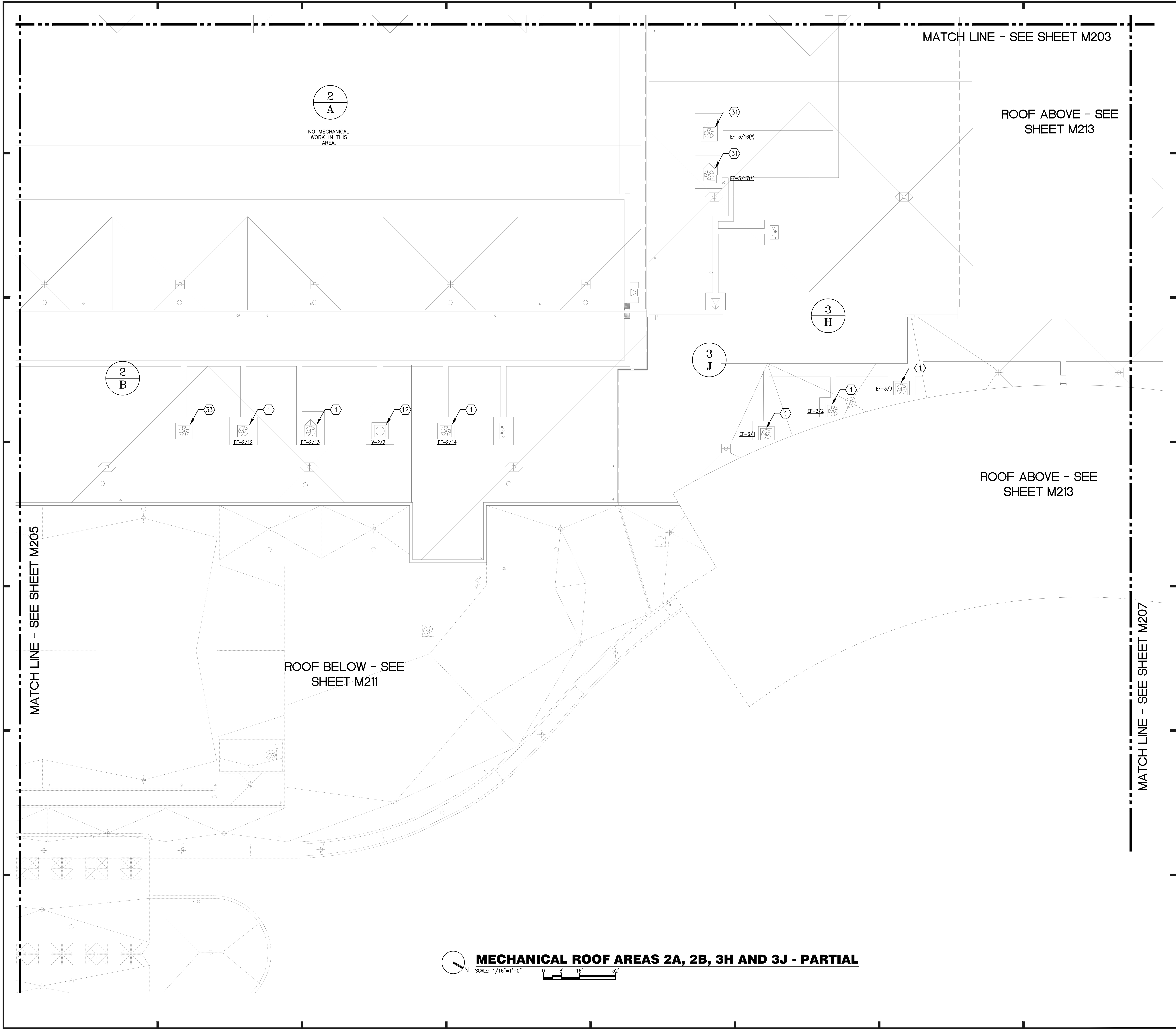
MATCH LINE - SEE SHEET M206

ROOF BELOW - SEE SHEET M210

NO MECHANICAL WORK IN THIS AREA.

ROOF BELOW - SEE SHEET M210

MECHANICAL PARTIAL PLAN - AREAS 1A, 2A, 5A, 2B, 5B, 5H



2
A

NO MECHANICAL WORK IN THIS AREA.

2
B

3
H

3
J

ROOF BELOW - SEE SHEET M211

ROOF ABOVE - SEE SHEET M213

MATCH LINE - SEE SHEET M203

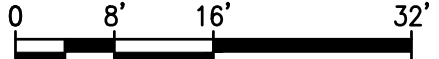
MATCH LINE - SEE SHEET M205

MATCH LINE - SEE SHEET M207



MECHANICAL ROOF AREAS 2A, 2B, 3H AND 3J - PARTIAL

SCALE: 1/16"=1'-0"



GENERAL NOTES:

- a. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014), AND THE FLORIDA BUILDING CODE 5TH EDITION (2014).
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- c. ALL PLAN KEY NOTES DO NOT APPLY TO EVERY DRAWING.

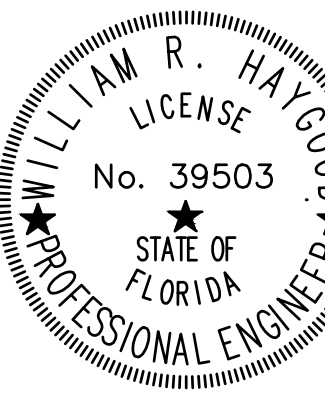
PLAN KEY NOTES:

1. EXHAUST FAN, ~70x70 CURB, SEE GENERAL NOTE b.
2. EXHAUST FAN, ~24x24 CURB, SEE GENERAL NOTE b.
3. EXHAUST FAN, ~35x35 CURB, SEE GENERAL NOTE b.
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8. VENT, ~84x84 CURB, SEE GENERAL NOTE b.
9. VENT, ~48x48 CURB, SEE GENERAL NOTE b.
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15. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
16. EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
17. EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
18. VENT, ~255x143 CURB, SEE GENERAL NOTE b.
19. VENT, ~22x22 CURB, SEE GENERAL NOTE b.
20. VENT, ~16x6 CURB, SEE GENERAL NOTE b.
21. CAPPED CURB ~18x18.
22. VENT, ~36x20 CURB, SEE GENERAL NOTE b.
23. VENT, ~32x32 CURB, SEE GENERAL NOTE b.
24. VENT, ~24x24 CURB, SEE GENERAL NOTE b.
25. EXHAUST FAN*
26. EXHAUST FAN, ~79x42 CURB, SEE GENERAL NOTE b.
27. VENT, ~40x16 CURB, SEE GENERAL NOTE b.
28. EXHAUST FAN, ~32x32 CURB, SEE GENERAL NOTE b.
29. VENT, ~65x49 CURB, SEE GENERAL NOTE b.
30. VENT, ~53x40 CURB, SEE GENERAL NOTE b.
31. *EXHAUST FAN, SEE GENERAL NOTE b.
32. *VENT, SEE GENERAL NOTE b.
33. EQUIPMENT DOES NOT EXIST.



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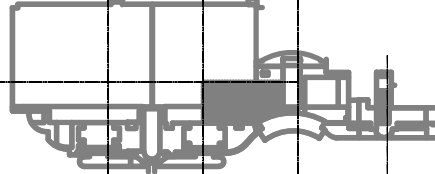


DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
DRAWN BY: WFH
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DATE: 05-08-2017
SCALE: 1/16" = 1'-0"
PLOT SCALE:

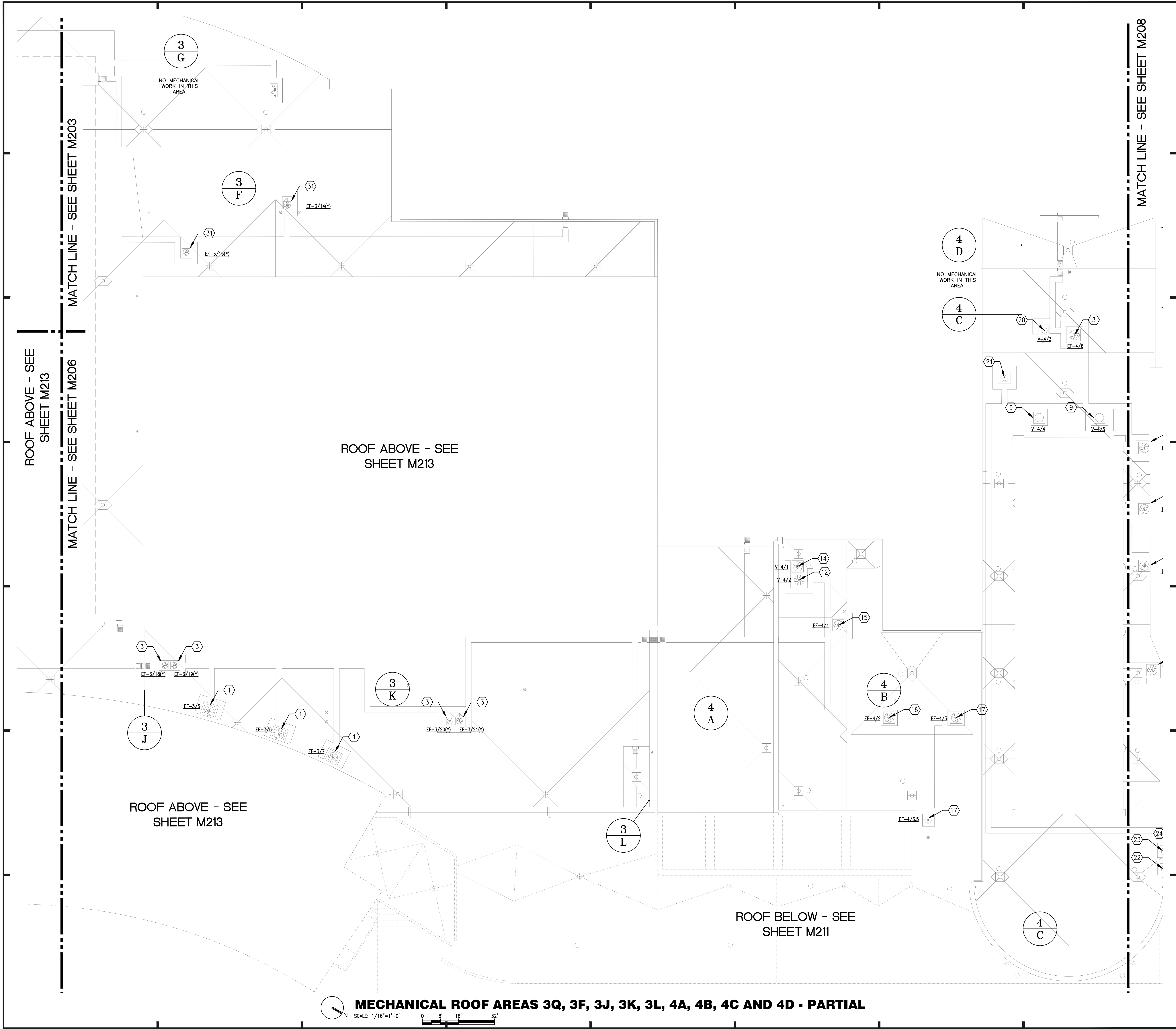
M-206

SHEET NO.: 600P 106 SHEET(S)



KEY PLAN

MECHANICAL PARTIAL PLAN - AREAS 2A, 2B, 3H, 3J



GENERAL NOTES:

- a. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014), AND THE FLORIDA BUILDING CODE 5TH EDITION (2014).
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- c. ALL PLAN KEY NOTES DO NOT APPLY TO EVERY DRAWING.

PLAN KEY NOTES:

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15. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
16. EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
17. EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
18. VENT, ~255x143 CURB, SEE GENERAL NOTE b.
19. VENT, ~22x22 CURB, SEE GENERAL NOTE b.
20. VENT, ~16x6 CURB, SEE GENERAL NOTE b.
21. CAPPED CURB ~18x18.
22. VENT, ~36x20 CURB, SEE GENERAL NOTE b.
23. VENT, ~32x32 CURB, SEE GENERAL NOTE b.
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26. EXHAUST FAN, ~79x42 CURB, SEE GENERAL NOTE b.
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28. EXHAUST FAN, ~32x32 CURB, SEE GENERAL NOTE b.
29. VENT, ~65x49 CURB, SEE GENERAL NOTE b.
30. VENT, ~53x40 CURB, SEE GENERAL NOTE b.
31. *EXHAUST FAN, SEE GENERAL NOTE b.
32. *VENT, SEE GENERAL NOTE b.
33. EQUIPMENT DOES NOT EXIST.

A/R/C Associates Incorporated
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REVISIONS

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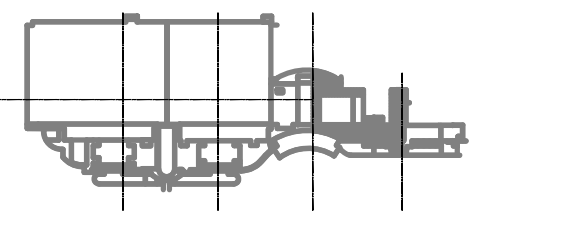
SGM ENGINEERING
 MEP CONSULTING ENGINEERS
 935 LAKE MILDRED LANE
 ORLANDO, FL 32814
 TEL: 407-767-5188
 FAX: 407-767-3772
 WWW.SGMENGINEERING.COM
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BASE CONSULTANTS
 Engineering & Construction I
 1814 EAST ORANGE STREET
 ORLANDO, FL 32817

MECHANICAL PARTIAL PLAN - AREAS 3C, 3F, 3J, 3K, 4A, 4B, 4C, 4D
 DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
 ORANGE COUNTY CONVENTION CENTER
 9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
 DRAWN BY: WFH
 CHECKED BY: JEB
 DATE: 05-08-2017
 SCALE: 1/16" = 1'-0"
 PLOT SCALE:

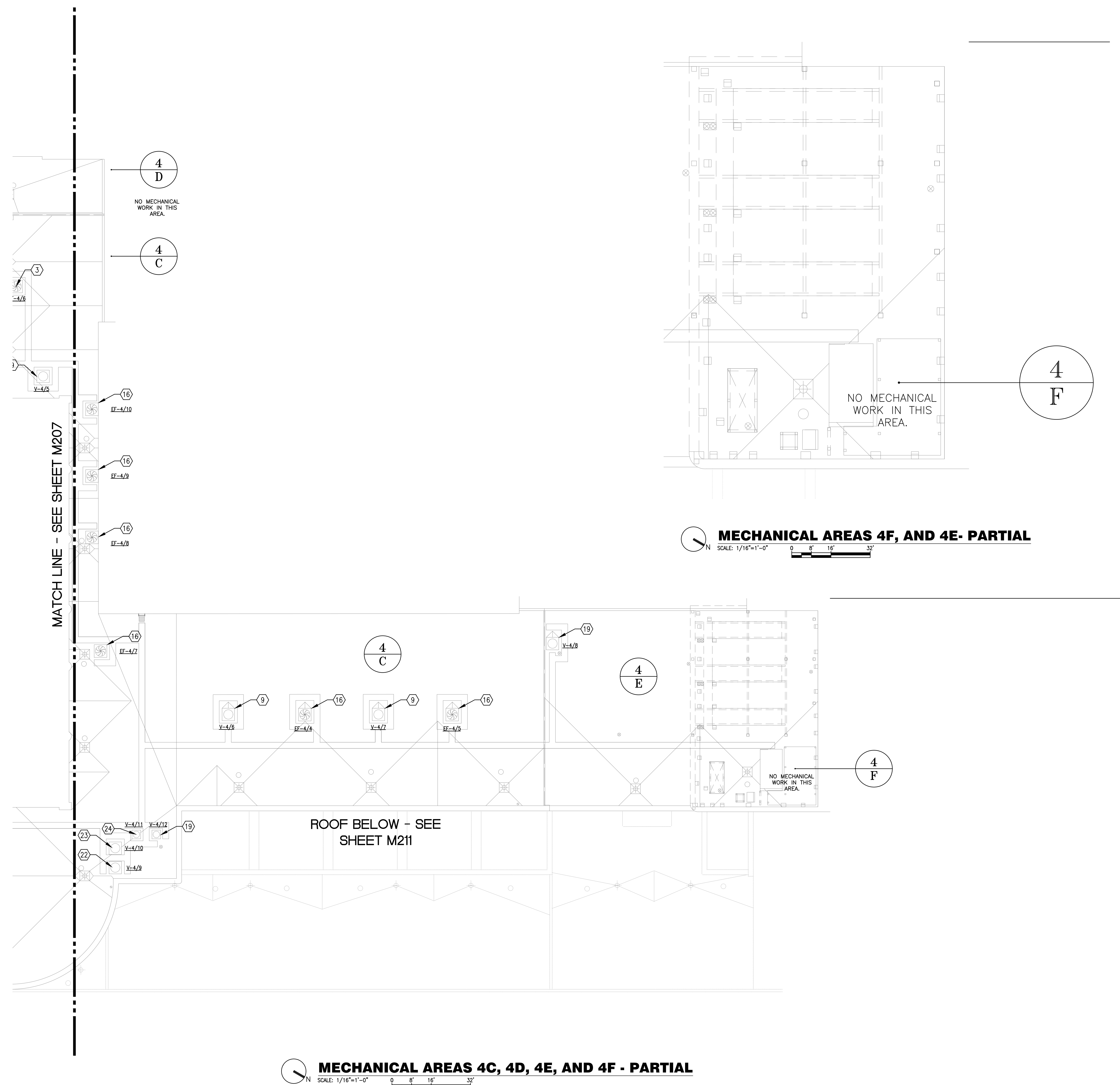
M-207
 SHEET NO.:
 67 OF 106 SHEET(S)



KEY PLAN

MECHANICAL ROOF AREAS 3Q, 3F, 3J, 3K, 3L, 4A, 4B, 4C AND 4D - PARTIAL

SCALE: 1/16"=1'-0"
 0 8' 16' 32'



MECHANICAL AREAS 4C, 4D, 4E, AND 4F - PARTIAL
 SCALE: 1/16"=1'-0"
 0 8' 16' 32'

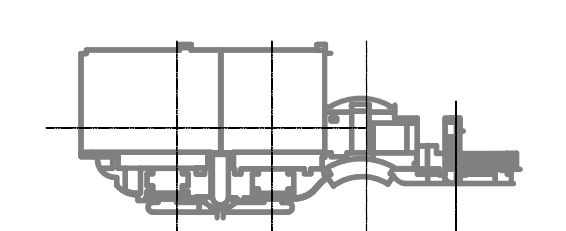
MECHANICAL AREAS 4F, AND 4E- PARTIAL
 SCALE: 1/16"=1'-0"
 0 8' 16' 32'

GENERAL NOTES:

- a. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014), AND THE FLORIDA BUILDING CODE 5TH EDITION (2014).
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- c. ALL PLAN KEY NOTES DO NOT APPLY TO EVERY DRAWING.

PLAN KEY NOTES:

1. EXHAUST FAN, ~70x70 CURB, SEE GENERAL NOTE b.
2. EXHAUST FAN, ~24x24 CURB, SEE GENERAL NOTE b.
3. EXHAUST FAN, ~35x35 CURB, SEE GENERAL NOTE b.
4. EXHAUST FAN, ~76x76 CURB, SEE GENERAL NOTE b.
5. EXHAUST FAN, ~55x55 CURB, SEE GENERAL NOTE b.
6. EXHAUST FAN, ~42x42 CURB, SEE GENERAL NOTE b.
7. EXHAUST FAN, ~96x96 CURB, SEE GENERAL NOTE b.
8. VENT, ~84x84 CURB, SEE GENERAL NOTE b.
9. VENT, ~48x48 CURB, SEE GENERAL NOTE b.
10. VENT, ~42x42 CURB, SEE GENERAL NOTE b.
11. VENT, ~36x36 CURB, SEE GENERAL NOTE b.
12. VENT, ~69x69 CURB, SEE GENERAL NOTE b.
13. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
14. VENT, ~76x76 CURB, SEE GENERAL NOTE b.
15. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
16. EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
17. EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
18. VENT, ~255x143 CURB, SEE GENERAL NOTE b.
19. VENT, ~22x22 CURB, SEE GENERAL NOTE b.
20. VENT, ~16x6 CURB, SEE GENERAL NOTE b.
21. CAPPED CURB ~18x18.
22. VENT, ~36x20 CURB, SEE GENERAL NOTE b.
23. VENT, ~32x32 CURB, SEE GENERAL NOTE b.
24. VENT, ~24x24 CURB, SEE GENERAL NOTE b.
25. EXHAUST FAN*
26. EXHAUST FAN, ~79x42 CURB, SEE GENERAL NOTE b.
27. VENT, ~40x16 CURB, SEE GENERAL NOTE b.
28. EXHAUST FAN, ~32x32 CURB, SEE GENERAL NOTE b.
29. VENT, ~69x49 CURB, SEE GENERAL NOTE b.
30. VENT, ~53x40 CURB, SEE GENERAL NOTE b.
31. *EXHAUST FAN, SEE GENERAL NOTE b.
32. *VENT, SEE GENERAL NOTE b.
33. EQUIPMENT DOES NOT EXIST.



KEY PLAN

A/R/C Associates Incorporated
 Architecture
 Roof Consulting
 Construction Technology
 LIC. NBR AAC000932
 601 North Palm Creek Avenue
 Suite 100 Orlando, FL
 32803-4899
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WILLIAM R. HAINCOCK
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 No. 39503
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

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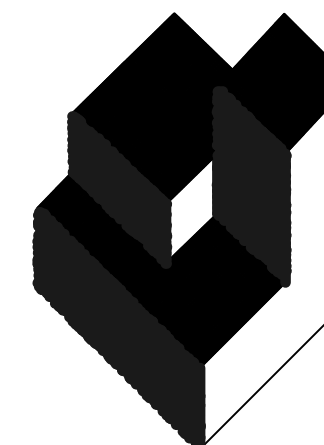
BASE CONSULTANTS
 Engineering & Construction I
 1824 EAST ORANGE STREET
 ORLANDO, FL 32817

DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
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 DATE: 05-08-2017
 SCALE: 1/16" = 1'-0"
 PLOT SCALE:

M-208
 SHEET NO.:
 60 OF 106 SHEET(S)

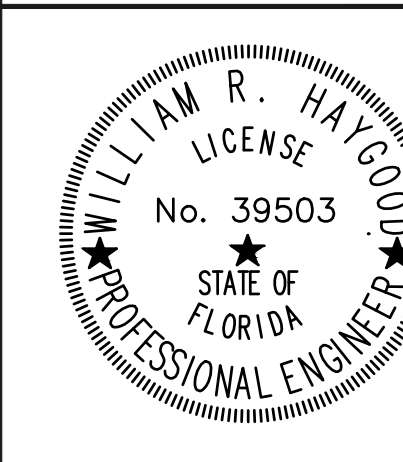
MECHANICAL PARTIAL PLAN - AREAS 4C, 4E, 4F, 4G



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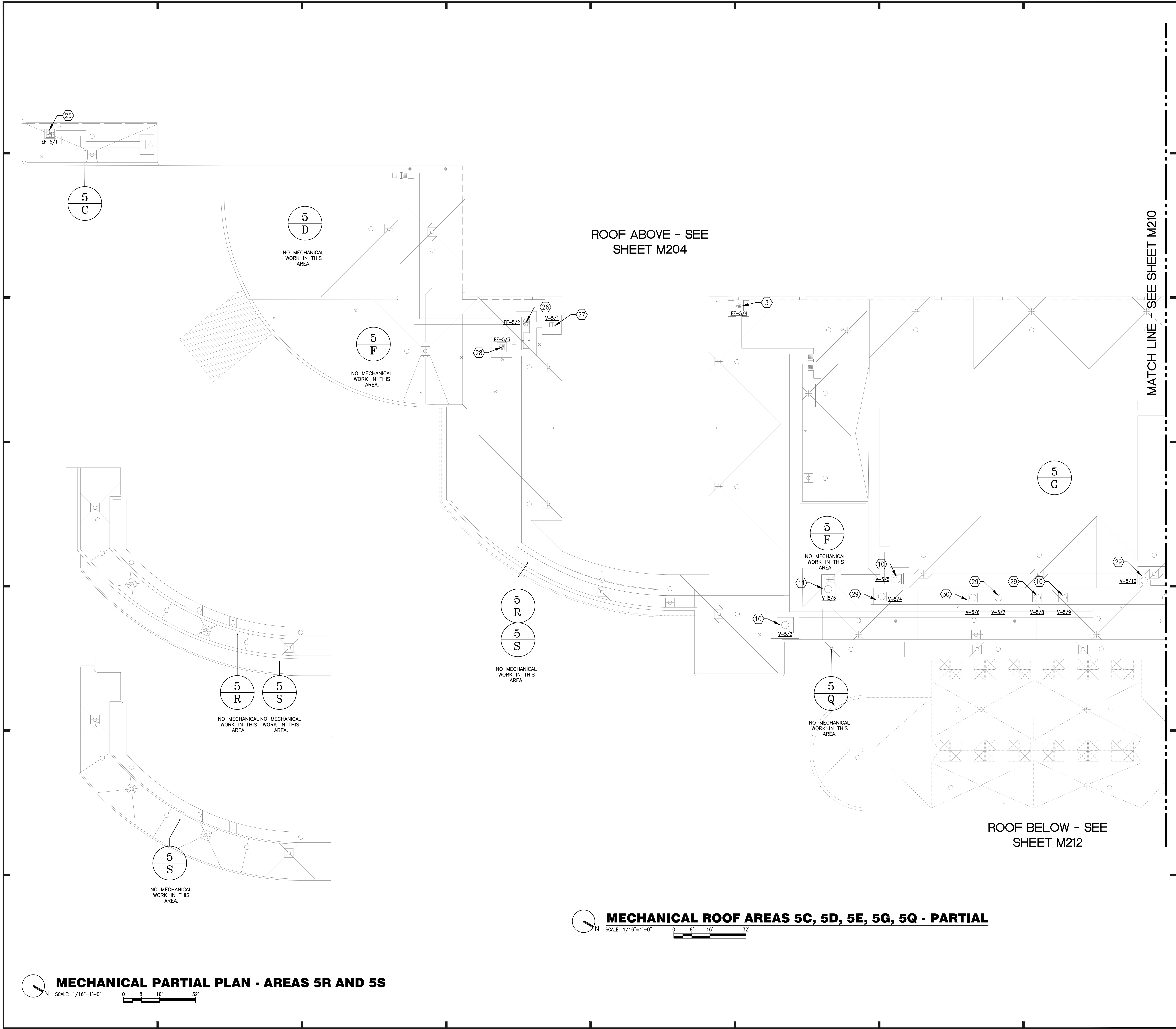
M-209
SHEET NO.:
60 OF 136 SHEET(S)

GENERAL NOTES:

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- VENT, ~65x49 CURB, SEE GENERAL NOTE b.
- VENT, ~53x40 CURB, SEE GENERAL NOTE b.
- *EXHAUST FAN, SEE GENERAL NOTE b.
- *VENT, SEE GENERAL NOTE b.
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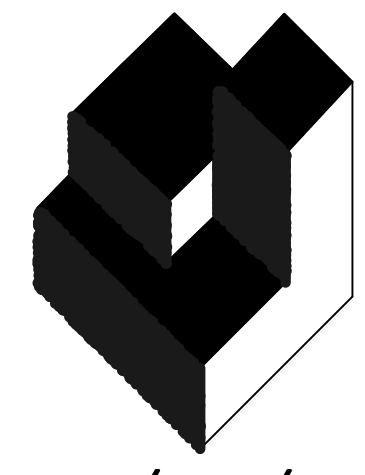
MECHANICAL ROOF AREAS 5C, 5D, 5E, 5G, 5Q - PARTIAL
SCALE: 1/16"=1'-0" 0 8' 16' 32'

MECHANICAL PARTIAL PLAN - AREAS 5R AND 5S
SCALE: 1/16"=1'-0" 0 8' 16' 32'



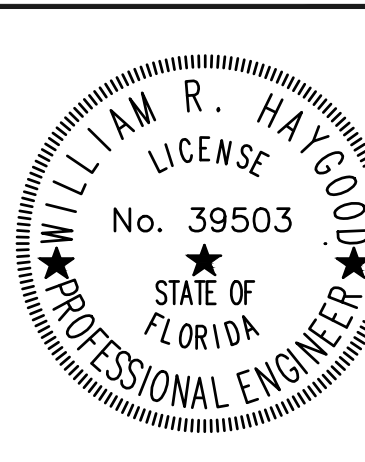
KEY PLAN

MECHANICAL PARTIAL PLAN - AREAS 5C, 5D, 5E, 5G, 5Q, 5R AND 5S



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DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
DRAWN BY: WFH
CHECKED BY: JEB
DATE: 05-08-2017
SCALE: 1/16" = 1'-0"
PLOT SCALE:

M-210
SHEET NO.:
700P 106 SHEET(S)

GENERAL NOTES:

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36. EXHAUST FAN, ~58x58 CURB, SEE GENERAL NOTE b.
37. VENT, ~72x56 CURB, SEE GENERAL NOTE b.
38. *EXHAUST FAN, SEE GENERAL NOTE b.
39. *VENT, SEE GENERAL NOTE b.
40. VENT, ~258x144, SEE GENERAL NOTE b.
41. VENT, ~255x143, SEE GENERAL NOTE b.

MATCH LINE - SEE SHEET M209

MATCH LINE - SEE SHEET M211

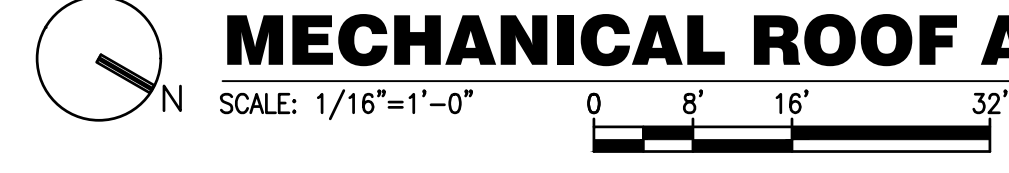
ROOF ABOVE - SEE SHEET M205

ROOF ABOVE - SEE SHEET M205

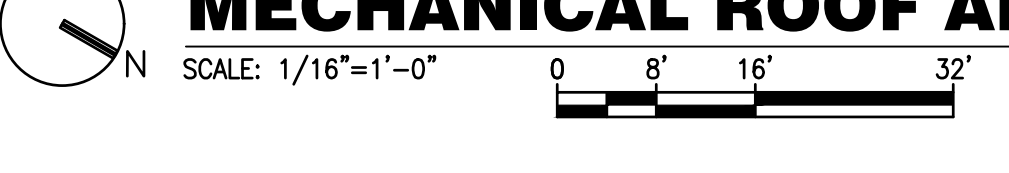
ROOF ABOVE - SEE SHEET M205

ROOF BELOW - SEE SHEET M212

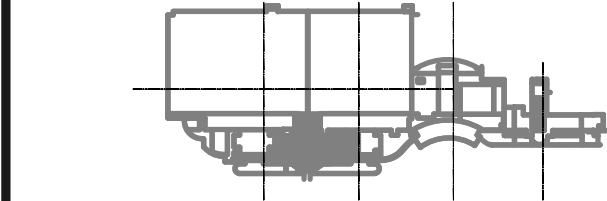
MECHANICAL ROOF AREAS 5F, 5G, 5I, 5J, 5K, 5L, 5O, 5Q AND 5T - PARTIAL

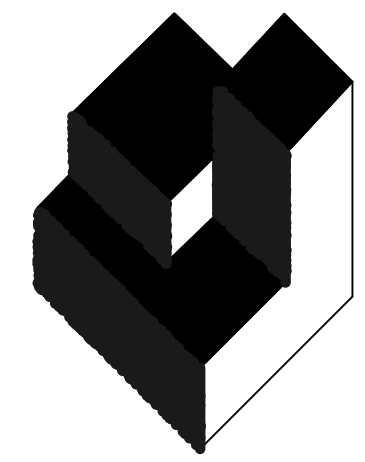


MECHANICAL ROOF AREA 5P



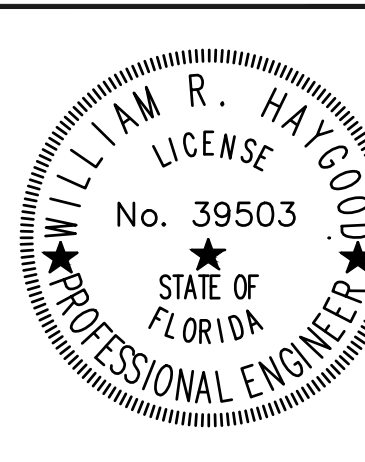
KEY PLAN





A/R/C Associates Incorporated

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32803-4899
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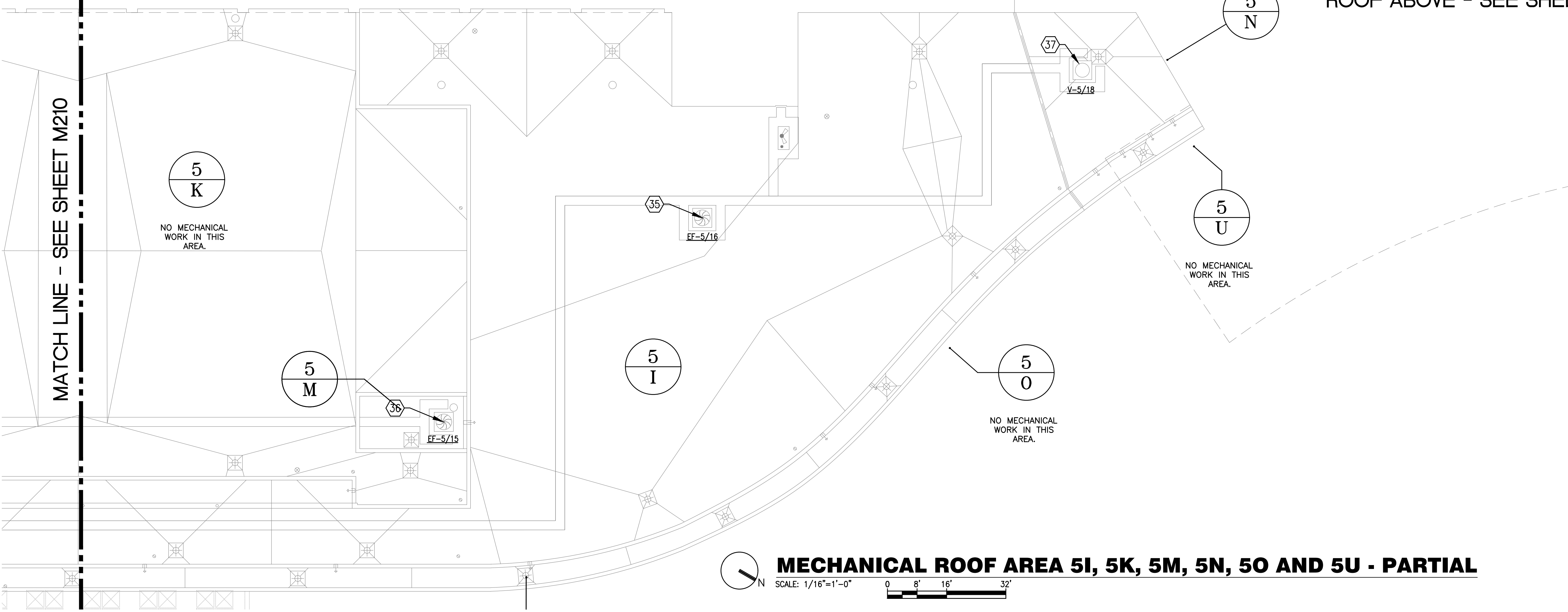


DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

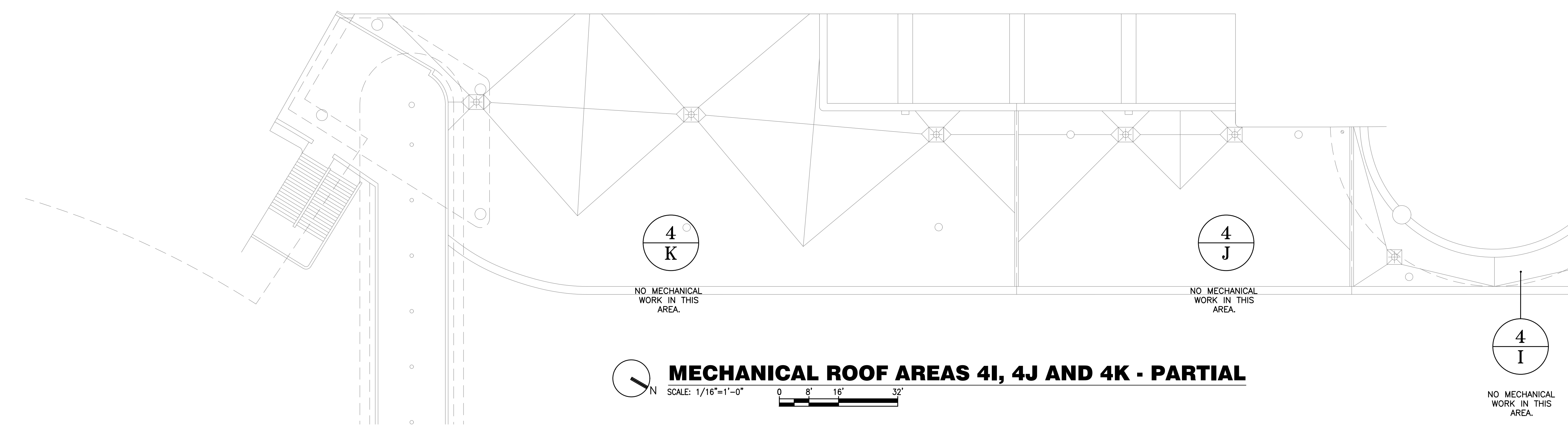
JOB NO.: 16032.00
DRAWN BY: WFH
CHECKED BY: JEB
DATE: 05-08-2017
SCALE: 1/16" = 1'-0"
PLOT SCALE:

M-211
SHEET NO.:
71 OF 106 SHEET(S)

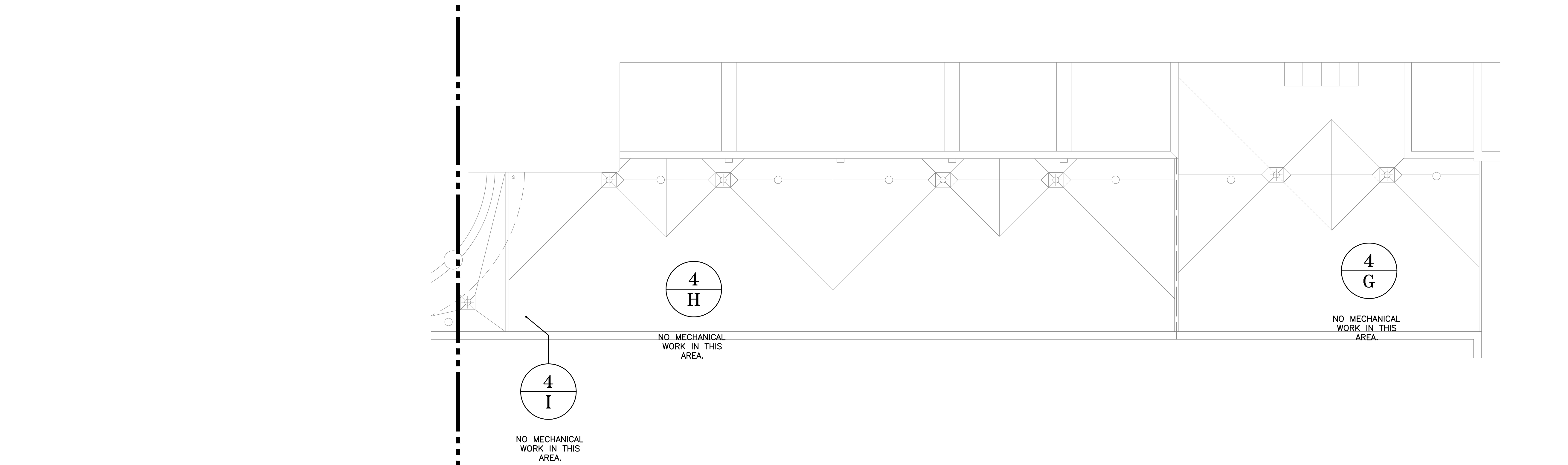
ROOF ABOVE - SEE SHEET M206



MECHANICAL ROOF AREA 5I, 5K, 5M, 5N, 5O AND 5U - PARTIAL



MECHANICAL ROOF AREAS 4I, 4J AND 4K - PARTIAL



MECHANICAL ROOF AREAS 4G, 4H AND 4I - PARTIAL

MATCH LINE - SEE SHEET M210

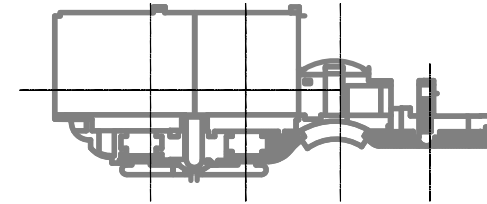
GENERAL NOTES:

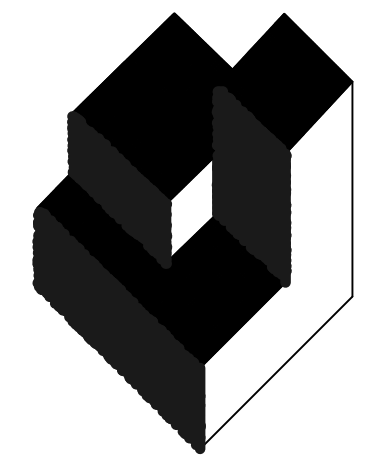
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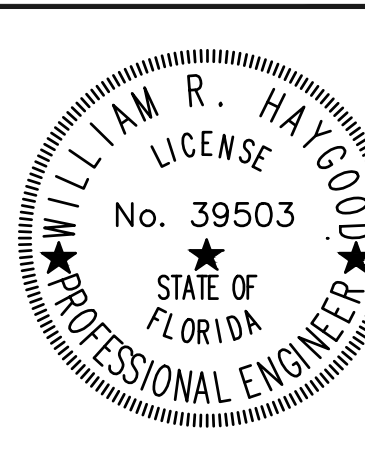
KEY PLAN





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601 North Fern Creek Avenue
Suite 100 Orlando, FL
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NO.	DATE	BY:



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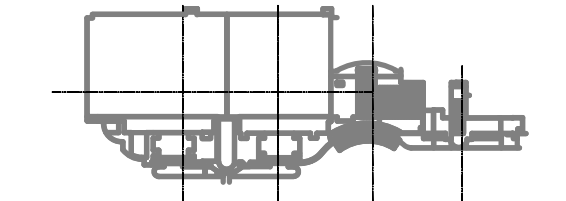
M-212
SHEET NO.:
72 OF 136 SHEET(S)

GENERAL NOTES:

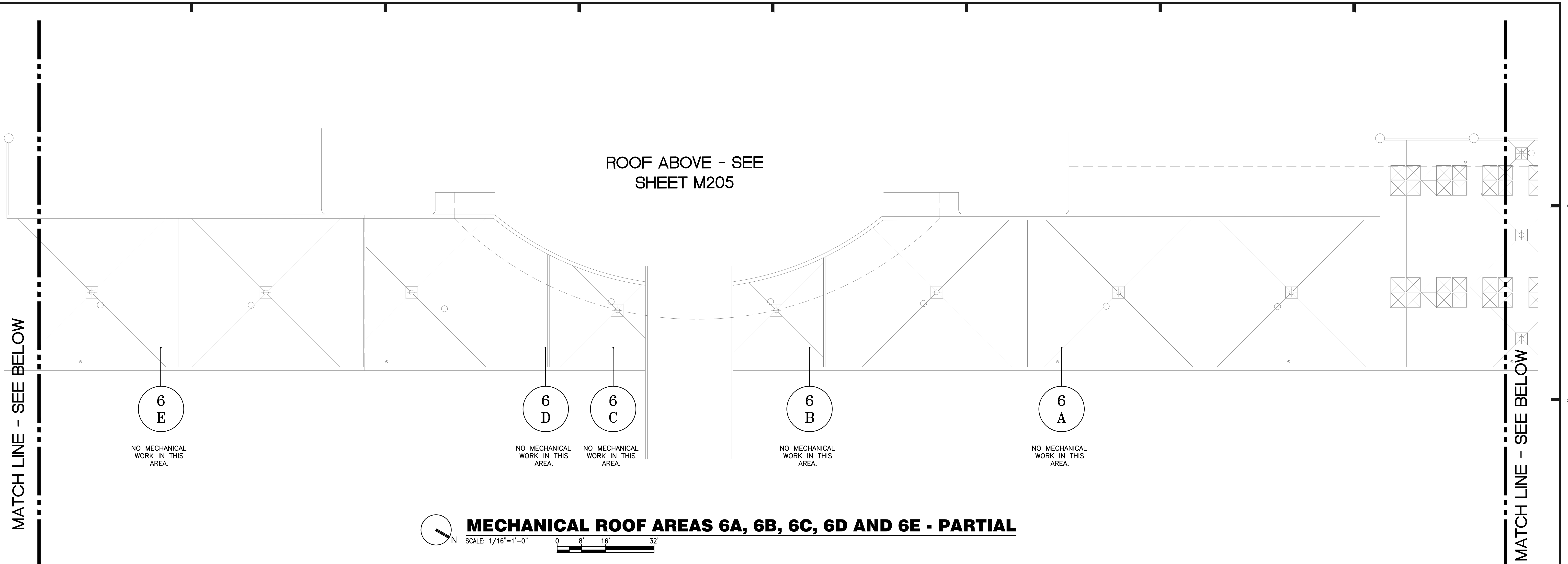
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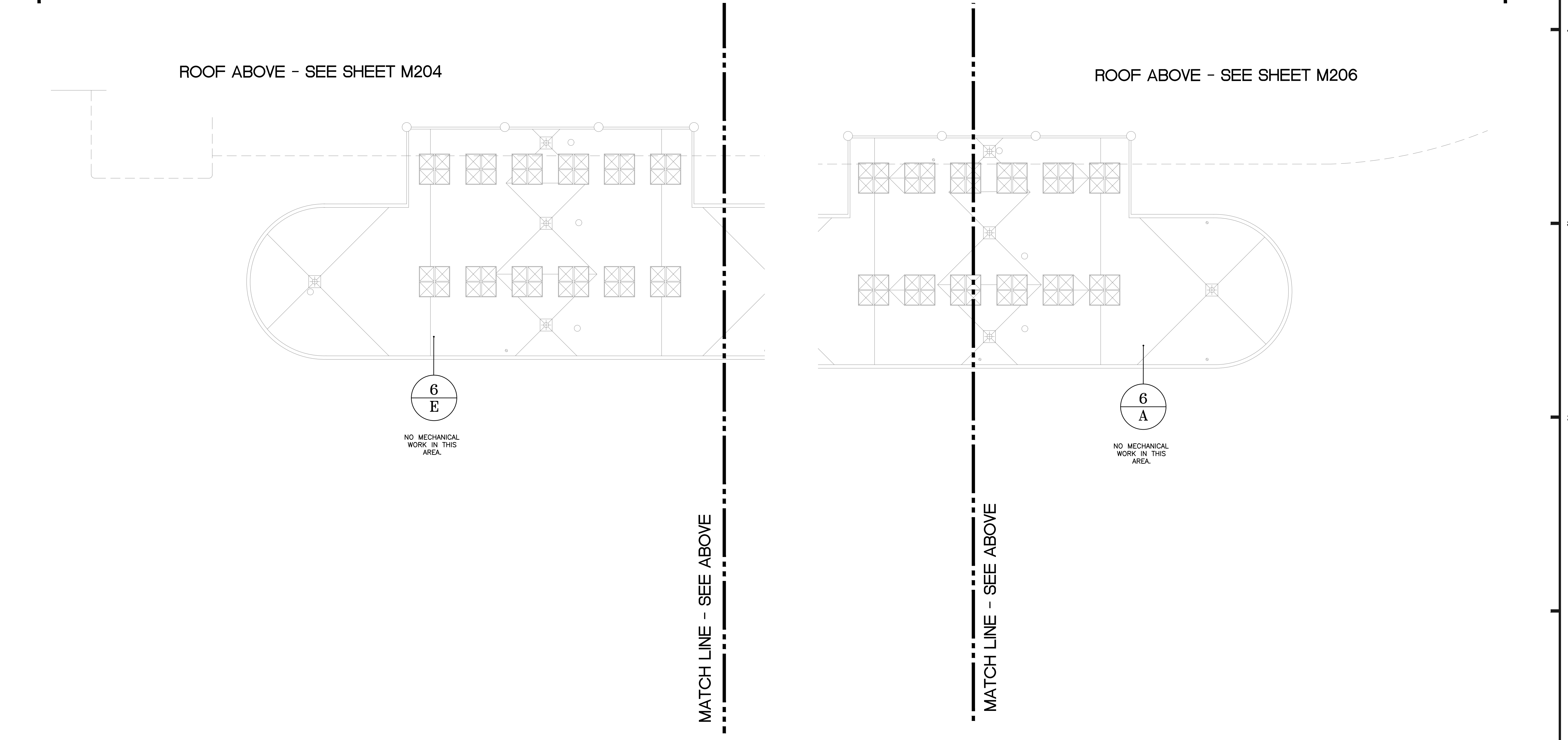
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- VENT, ~42x42 CURB, SEE GENERAL NOTE b.
- VENT, ~36x36 CURB, SEE GENERAL NOTE b.
- VENT, ~69x69 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
- VENT, ~78x78 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
- VENT, ~255x143 CURB, SEE GENERAL NOTE b.
- VENT, ~22x22 CURB, SEE GENERAL NOTE b.
- VENT, ~16x6 CURB, SEE GENERAL NOTE b.
- CAPPED CURB ~18x18.
- VENT, ~36x20 CURB, SEE GENERAL NOTE b.
- VENT, ~32x32 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~24x24 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~79x42 CURB, SEE GENERAL NOTE b.
- VENT, ~40x16 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~32x32 CURB, SEE GENERAL NOTE b.
- VENT, ~65x49 CURB, SEE GENERAL NOTE b.
- VENT, ~53x40 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~104x52 CURB, SEE GENERAL NOTE b.
- VENT, ~42x36 CURB, SEE GENERAL NOTE b.
- VENT, ~67x42 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~40x40 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~30x30 CURB, SEE GENERAL NOTE b.
- EXHAUST FAN, ~58x58 CURB, SEE GENERAL NOTE b.
- VENT, ~72x56 CURB, SEE GENERAL NOTE b.
- *EXHAUST FAN, SEE GENERAL NOTE b.
- *VENT, SEE GENERAL NOTE b.
- VENT, ~258x144, SEE GENERAL NOTE b.
- VENT, ~255x143, SEE GENERAL NOTE b.



KEY PLAN



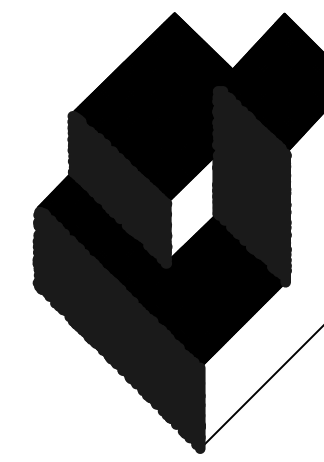
MECHANICAL ROOF AREAS 6A, 6B, 6C, 6D AND 6E - PARTIAL
SCALE: 1/16"=1'-0" 0 8' 16' 32'



MECHANICAL PLAN AREA 6A - PARTIAL
SCALE: 1/16"=1'-0" 0 8' 16' 32'

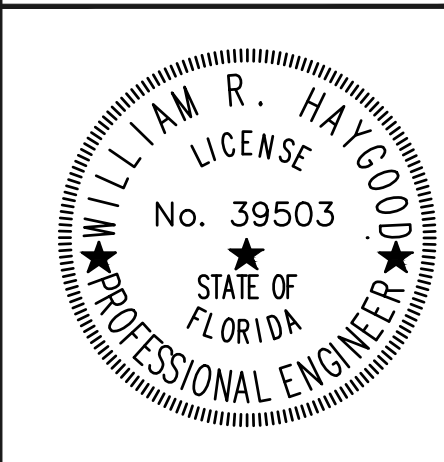
MECHANICAL AREA 6E - PARTIAL
SCALE: 1/16"=1'-0" 0 8' 16' 32'

MECHANICAL PARTIAL PLAN - AREAS 6A, 6B, 6C, 6D, 6E



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DESIGNATED REPAIRS AND REPLACEMENT OF:
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
DRAWN BY: WFH
CHECKED BY: JEB
DATE: 05-08-2017
SCALE: 1/16" = 1'-0"
PLOT SCALE:

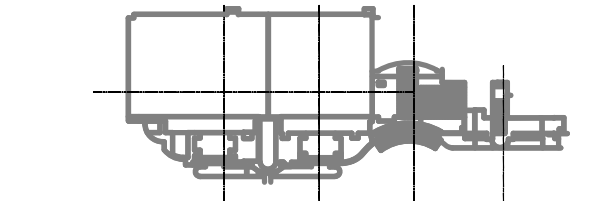
M-213
SHEET NO.:
79 OF 106 SHEET(S)

GENERAL NOTES:

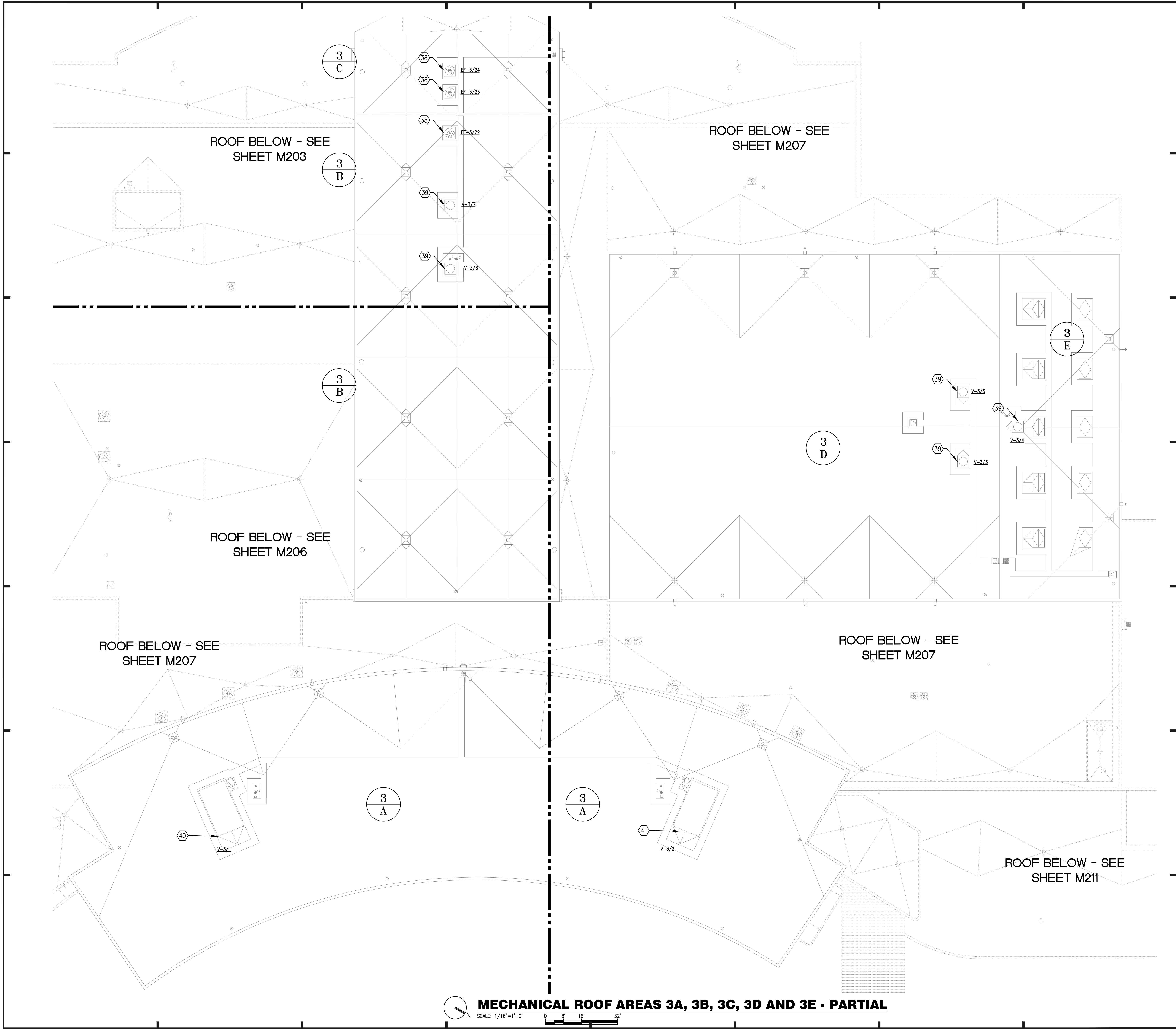
- a. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014), AND THE FLORIDA BUILDING CODE 5TH EDITION (2014).
- b. ALL EXISTING ROOF MOUNTED HVAC EQUIPMENT SHALL BE DISCONNECTED FROM POWER AND ANY EXISTING DUCTWORK CONNECTIONS; REMOVED AND TEMPORARILY STORED; AND REINSTALLED ON EXISTING ROOF CURBS AND RESTORE CONNECTIONS TO ANY EXISTING DUCTWORK. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL WORK.
- c. ALL PLAN KEY NOTES DO NOT APPLY TO EVERY DRAWING.

PLAN KEY NOTES:

1. EXHAUST FAN, ~70x70 CURB, SEE GENERAL NOTE b.
2. EXHAUST FAN, ~24x24 CURB, SEE GENERAL NOTE b.
3. EXHAUST FAN, ~35x35 CURB, SEE GENERAL NOTE b.
4. EXHAUST FAN, ~76x76 CURB, SEE GENERAL NOTE b.
5. EXHAUST FAN, ~55x55 CURB, SEE GENERAL NOTE b.
6. EXHAUST FAN, ~42x42 CURB, SEE GENERAL NOTE b.
7. EXHAUST FAN, ~96x96 CURB, SEE GENERAL NOTE b.
8. VENT, ~84x84 CURB, SEE GENERAL NOTE b.
9. VENT, ~48x48 CURB, SEE GENERAL NOTE b.
10. VENT, ~42x42 CURB, SEE GENERAL NOTE b.
11. VENT, ~36x36 CURB, SEE GENERAL NOTE b.
12. VENT, ~59x59 CURB, SEE GENERAL NOTE b.
13. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
14. VENT, ~78x78 CURB, SEE GENERAL NOTE b.
15. EXHAUST FAN, ~82x82 CURB, SEE GENERAL NOTE b.
16. EXHAUST FAN, ~60x60 CURB, SEE GENERAL NOTE b.
17. EXHAUST FAN, ~20x20 CURB, SEE GENERAL NOTE b.
18. VENT, ~255x143 CURB, SEE GENERAL NOTE b.
19. VENT, ~22x22 CURB, SEE GENERAL NOTE b.
20. VENT, ~16x6 CURB, SEE GENERAL NOTE b.
21. CAPPED CURB ~18x18.
22. VENT, ~36x20 CURB, SEE GENERAL NOTE b.
23. VENT, ~32x32 CURB, SEE GENERAL NOTE b.
24. VENT, ~24x24 CURB, SEE GENERAL NOTE b.
25. EXHAUST FAN*
26. EXHAUST FAN, ~79x42 CURB, SEE GENERAL NOTE b.
27. VENT, ~40x16 CURB, SEE GENERAL NOTE b.
28. EXHAUST FAN, ~32x32 CURB, SEE GENERAL NOTE b.
29. VENT, ~65x49 CURB, SEE GENERAL NOTE b.
30. VENT, ~53x40 CURB, SEE GENERAL NOTE b.
31. EXHAUST FAN, ~104x52 CURB, SEE GENERAL NOTE b.
32. VENT, ~42x36 CURB, SEE GENERAL NOTE b.
33. VENT, ~67x42 CURB, SEE GENERAL NOTE b.
34. EXHAUST FAN, ~40x40 CURB, SEE GENERAL NOTE b.
35. EXHAUST FAN, ~30x30 CURB, SEE GENERAL NOTE b.
36. EXHAUST FAN, ~58x58 CURB, SEE GENERAL NOTE b.
37. VENT, ~72x56 CURB, SEE GENERAL NOTE b.
38. *EXHAUST FAN, SEE GENERAL NOTE b.
39. *VENT, SEE GENERAL NOTE b.
40. VENT, ~258x144, SEE GENERAL NOTE b.
41. VENT, ~255x143, SEE GENERAL NOTE b.



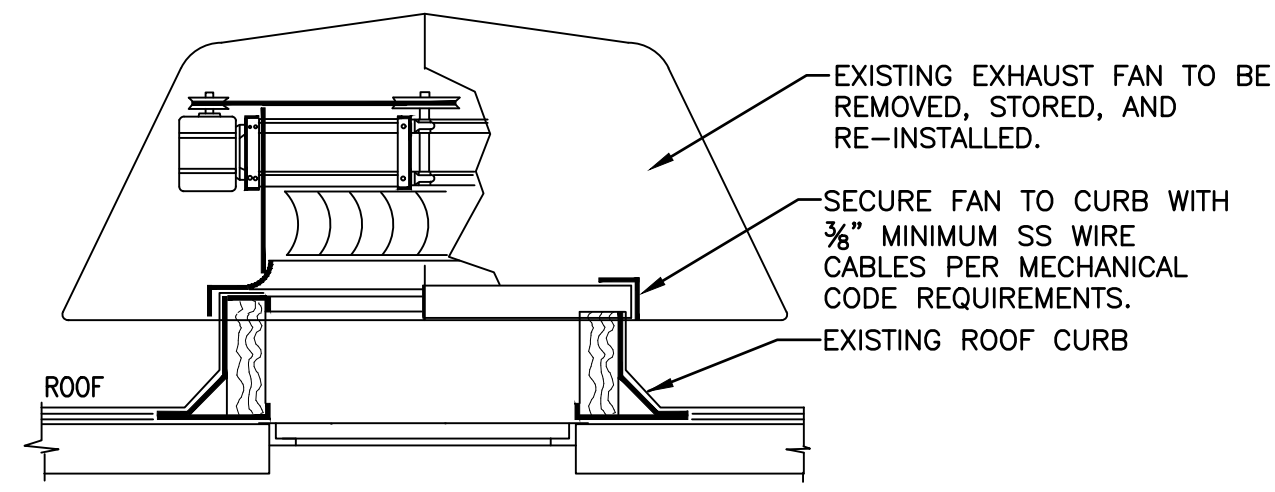
KEY PLAN



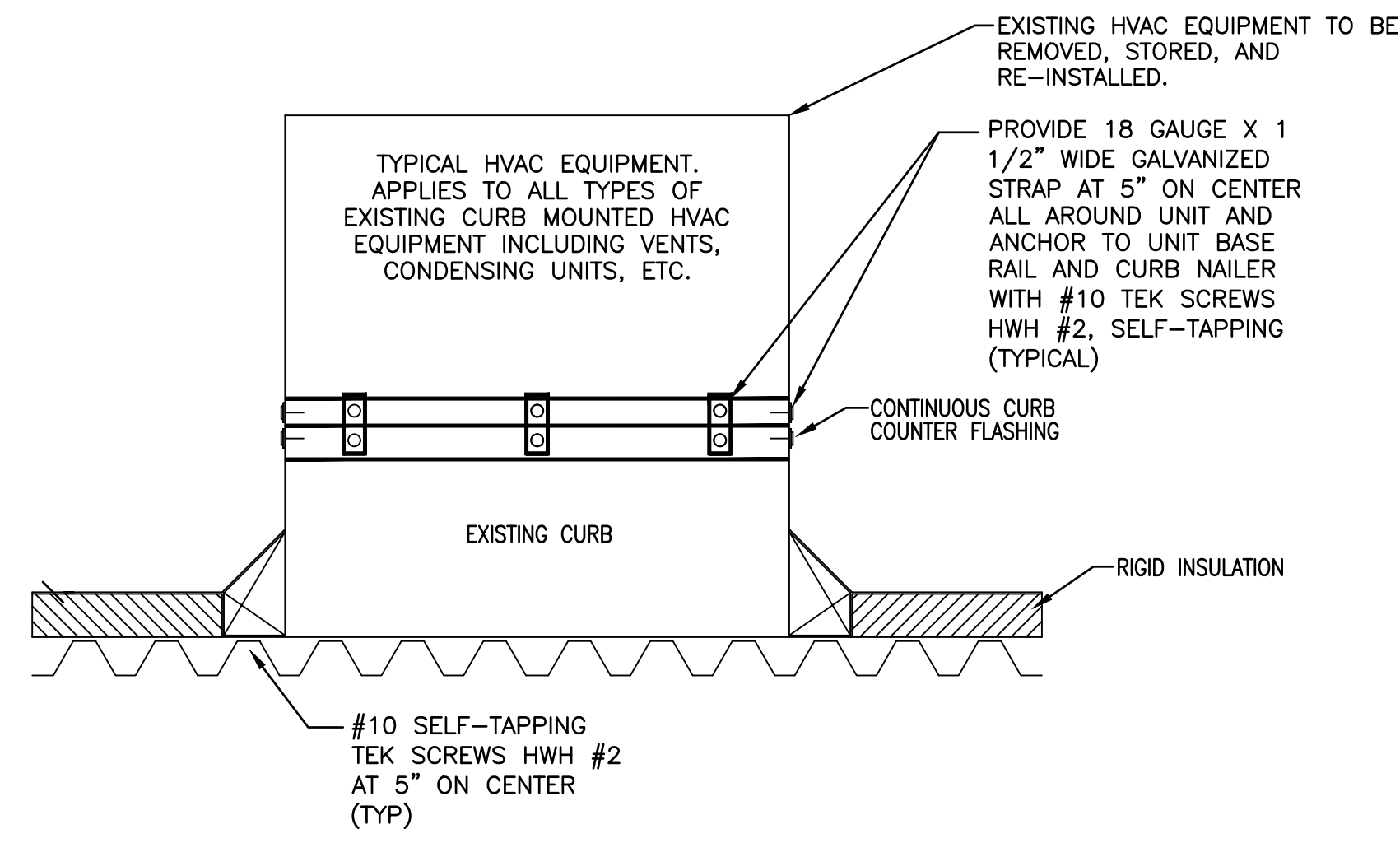
MECHANICAL ROOF AREAS 3A, 3B, 3C, 3D AND 3E - PARTIAL

SCALE: 1/16"=1'-0" 0 8' 16' 32'

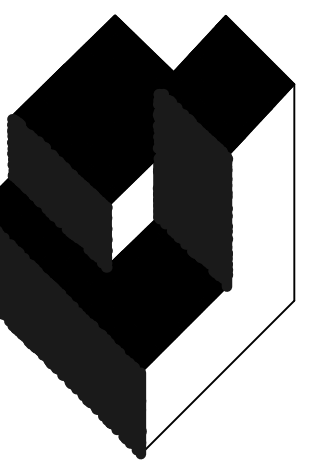
MECHANICAL PARTIAL PLAN - AREAS 3A, 3B, 3D, 3E



ROOF EXHAUST FAN
NOT TO SCALE

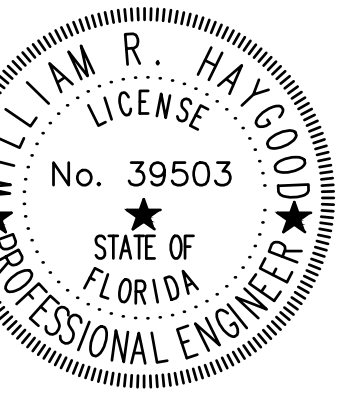


HVAC EQUIPMENT ROOF CURB RAIL ANCHORING DETAIL
NOT TO SCALE
MEQU-22



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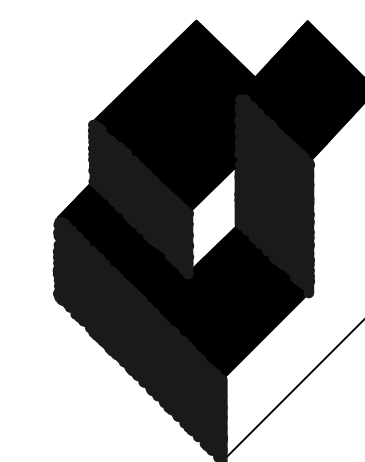
DESIGNATED REPAIRS AND REPLACEMENT OF
OCCC WEST BLDG ROOF REPLACEMENT
ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
DRAWN BY: WRH
CHECKED BY: JEB
DATE: 05-08-2017
SCALE:
PLOT SCALE:

M-601

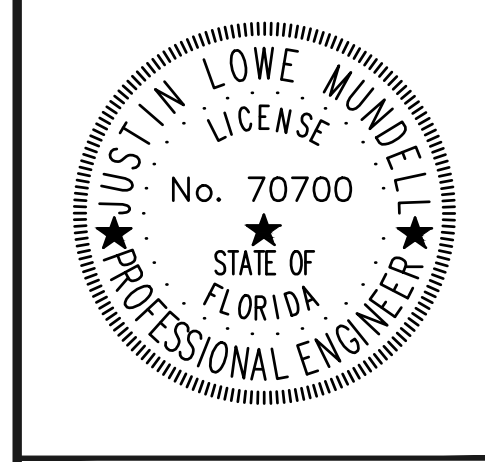
SHEET NO.:
74 OF 106 SHEET(S)

MECHANICAL DETAILS



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JOB NO.: 16032.00
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DATE: 05-08-2017
SCALE: 1:1
PLOT SCALE:

E-001
SHEET NO.:
76 OF 106 SHEET(S)

LIGHTNING PROTECTION

- ⊙ AIR TERMINAL (CLASS 1 MIN), MATCH EXISTING SIZE AND TYPE.
- EXISTING ROOFTOP MAIN CONDUCTOR.
- _____ ROOFTOP MAIN CONDUCTOR, RUN EXPOSED ACROSS ROOF. MATCH EXISTING SIZE AND TYPE.
- DN EXISTING DOWN CONDUCTOR.
- ▼ EXISTING BOLTED 3-WAY SPLICE
- ▼ BOLTED 3-WAY SPLICE
- EXISTING BOLTED 4-WAY SPLICE
- BOLTED 4-WAY SPLICE

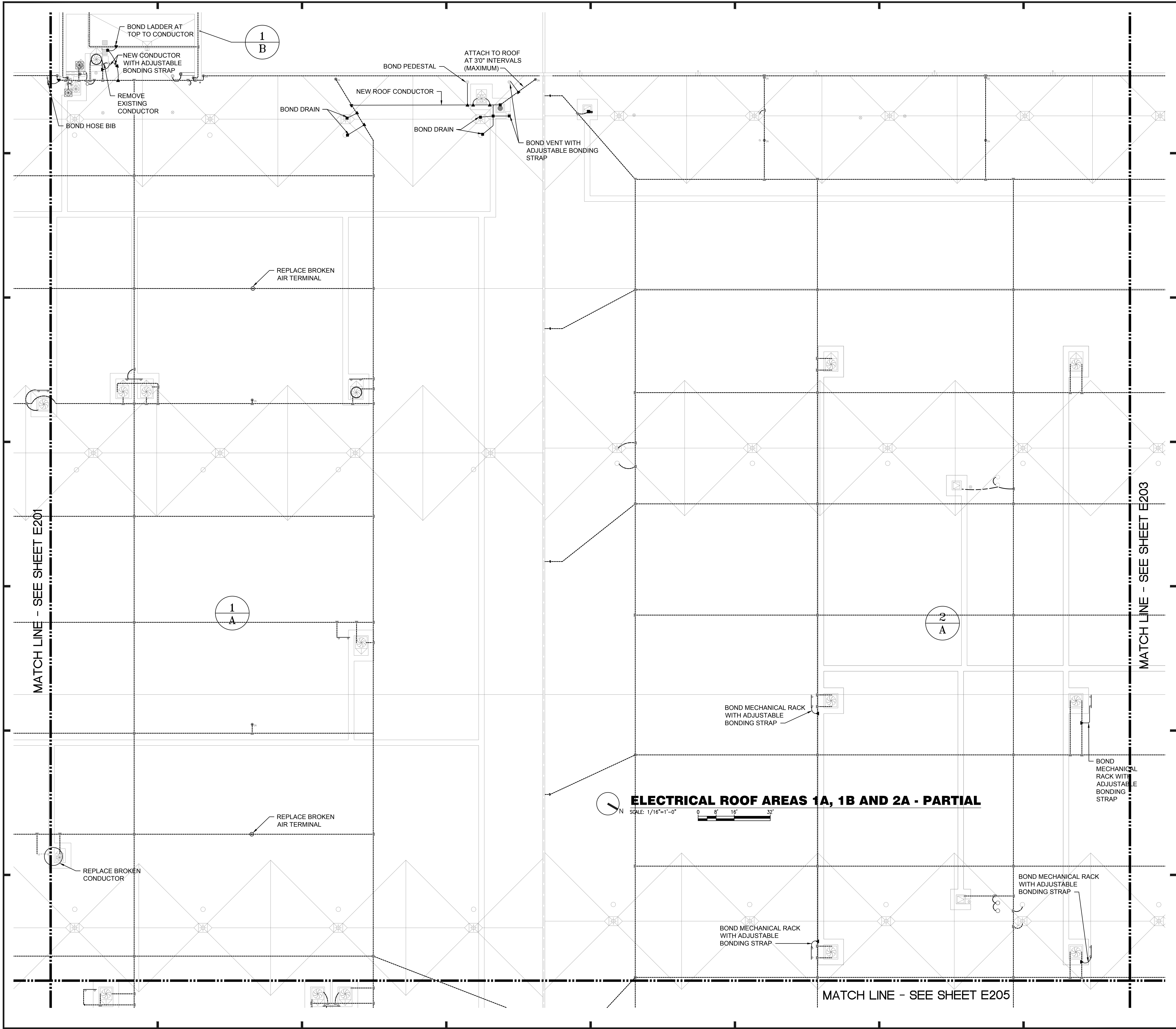
ABBREVIATIONS

A	AMPERES	EXIST	EXISTING	MCB	MOTOR CONTROL CENTER
AE	AUDIO ENHANCEMENT	EXP	EXPLOSION PROOF	MCC	MAIN CIRCUIT BREAKER
AFC	ABOVE FINISHED CEILING	FA	FIRE ALARM	MCP	MOTOR CIRCUIT PROTECTOR
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPERES	MFR	MANUFACTURER
AFG	ABOVE FINISHED GRADE	FLUOR	FLUORESCENT	MH	METAL HALIDE
AIC	AMPERES INTERRUPTING CAPACITY	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MIN	MINIMUM
AL	ALUMINUM	GFP	GROUND FAULT PROTECTION	MISC	MISCELLANEOUS
AWG	AMERICAN WIRE GAUGE	GND	GROUND	MMS	MANUAL MOTOR STARTER SWITCH
BFC	BELOW FINISHED CEILING	HGT	HEIGHT	MTR	MOTOR
BFG	BELOW FINISHED GRADE	HID	HIGH INTENSITY DISCHARGE	MTD	MOUNTED
C	CONDUIT	HPS	HIGH PRESSURE SODIUM	MTG	MOUNTING
CAB	CABINET	HOA	HAND-OFF-AUTOMATIC	NAC	NOTIFICATION APPLIANCE CIRCUIT
CKT	CIRCUIT	HP	HORSEPOWER	NEC	NATIONAL ELECTRICAL CODE
CLG	CEILING	HVAC	HEATING/VENTILATING/ AIR CONDITIONING	NL	NIGHT LIGHT, UNSWITCHED
CL	CENTERLINE	HV	HIGH VOLTAGE	PNL	PANEL
CTs	CURRENT TRANSFORMERS	INC	INCANDESCENT	PSI	PULL STATION INSIDE
CU	COPPER	JB	JUNCTION BOX	PVC	POLYVINYL CHLORIDE
DISC	DISCONNECT(ING)	KV	KILO-VOLTS	REC	RECEPTACLE
DWG	DRAWING(S)	kVA	KILO-VOLTS-AMPERES	RGS	RIGID GALVANIZED STEEL
EA	EACH	kVAR	KILO-VOLTS-AMPERES REACTIVE	SPD	SURGE PROTECTION DEVICE
ECB	ENCLOSED CIRCUIT BREAKER	kW	KILO-WATTS	TEL	TELEPHONE
EF	EXHAUST FAN	kWH	KILO-WATT-HOURS	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING	LTG	LIGHTING	UON	UNLESS OTHERWISE NOTED
EQUIP	EQUIPMENT	m	METER	V	VOLTS
EUH	ELECTRIC UNIT HEATER	mm	MILLIMETER	VA	VOLT-AMPERES
EWC	ELECTRIC WATER COOLER	MAX	MAXIMUM	VFD	VARIABLE FREQUENCY DRIVE
EWL	ELECTRIC WATER HEATER			W	WATTS
EXH	EXHAUST			WP	WEATHER PROOF
				XFMR	TRANSFORMER

SCOPE OF WORK

TO REMOVE THE EXISTING LIGHTNING PROTECTION SYSTEM AND DISCONNECT POWER FROM ROOF TOP EQUIPMENT WITHIN THE DEFINED PROJECT AREA. ONCE THE NEW MEMBRANE ROOFING SYSTEM AND ROOF TOP EQUIPMENT ARE REINSTALLED, THE POWER FOR THE ROOF TOP EQUIPMENT WILL BE RECONNECTED. THE LIGHTNING PROTECTION SYSTEM WILL BE REINSTALLED, REPAIRED, AND BROUGHT UP TO CODE IN ACCORDANCE WITH ANS/NFPA - 780 AND UL - 96 AND 96A

ELECTRICAL SYMBOLS LEGEND AND GENERAL NOTES



GENERAL NOTES:

- a. REFER TO SYMBOL LEGEND ON SHEET E-001.
- b. REFER TO BOOK SPECIFICATIONS.
- c. THE EXISTING LIGHTNING PROTECTION SYSTEM SHALL BE REMOVED AND REINSTALLED ONCE NEW MEMBRANE ROOF HAS BEEN INSTALLED. REINSTALLED LIGHTNING PROTECTION SHALL BE A COMPLETE CLASS 1 LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 AND UL96A.
- d. NEW AND REINSTALLED EXISTING CONDUCTORS SHALL HAVE A MINIMUM BEND RADIUS OF 6\".
- e. NEW AND REINSTALLED CONDUCTORS SHALL BE FASTENED TO THE STRUCTURE AT INTERVALS NOT EXCEEDING 3\".
- f. ALL METAL BODIES WITHIN 6\" OF ANY CONDUCTOR OR METAL STRUCTURE THAT IS BONDED TO THE LIGHTNING PROTECTION SYSTEM MUST BE BONDED TO THE SYSTEM PER NFPA 780 STANDARDS.
- g. ALL SPLICES MUST BE MADE PER NFPA 780 STANDARDS.
- h. CONTRACTOR SHALL DISCONNECT EQUIPMENT PRIOR TO REMOVAL AND RECONNECT ONCE EQUIPMENT IS REINSTALLED.

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 PROFESSIONAL ENGINEER

REVISIONS

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ORANGE COUNTY CONVENTION CENTER
9800 INTERNATIONAL DRIVE, ORLANDO, FL 32819

JOB NO.: 16032.00
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 SCALE: 1/16" = 1'-0"
 PLOT SCALE:

E-202
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 77 OF 106 SHEET(S)



ELECTRICAL PARTIAL PLAN - AREAS 1A, 1B, 2A