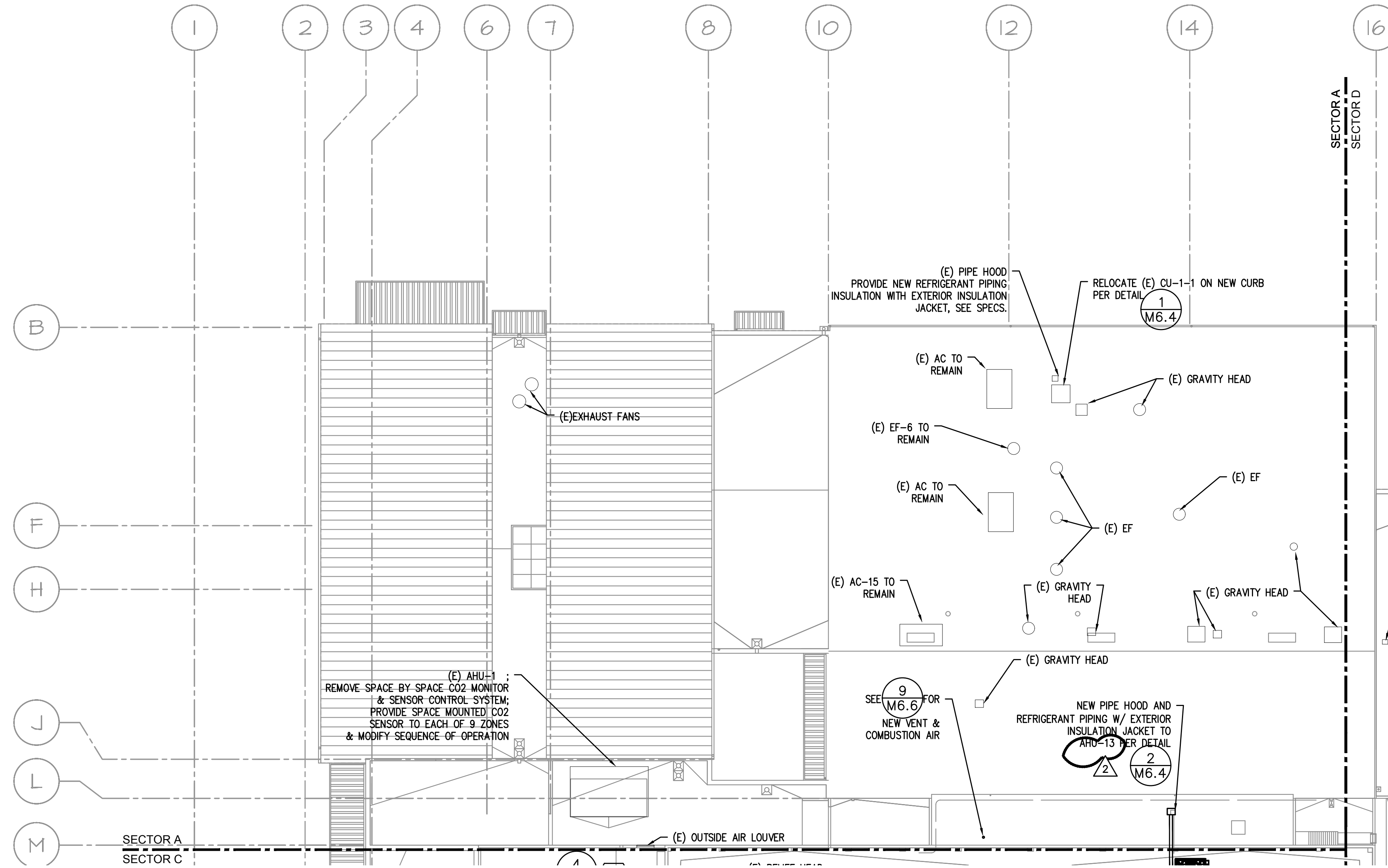


GENERAL SHEET NOTES:

- CONTRACTOR TO VERIFY LOCATION AND SIZES OF EXISTING DUCTWORK, PIPING, EQUIPMENT, CONTROLS, ETC. PRIOR TO COMMENCING WORK. IF SHOWN, LOCATION OR SIZE DIFFER FROM PLANS. LOCATE THE CORRECT SIZE ON SITE AND ADJUST CONNECTION ACCORDINGLY. PROVIDE NEW DUCT, PIPING, EQUIPMENT, CONTROLS AND ETC. IF ONE IS NOT PRESENT.
- CONTRACTOR TO PROVIDE UL LISTED 3M FIRE STOPPING AT ALL NEW AND EXISTING PIPE AND DUCT PENETRATIONS, INCLUDING PENETRATIONS NOT SHOWN ON THE CONSTRUCTION DOCUMENTS.
- CONTRACTOR TO KEEP RECORD OF NEW SYSTEM, CONTROLS, PIPING, DUCTWORK INSTALLED AS WELL AS EXISTING TO REMAIN, AND ITEMS DISCOVERED OR ENCOUNTERED ON SITE THAT WERE NOT SHOWN ON THE PLANS. THESE INCLUDE SYSTEMS, DUCTWORK, PIPE, ETC THAT DO NOT AFFECT OR ARE NOT PART OF THE PROJECT SCOPE, BUT ARE WITHIN THE BOUNDARIES OF THE PROJECT SCOPE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS THAT ACCURATELY REFLECT THE CONDITIONS WITHIN THE BOUNDARY OF THE PROJECT SCOPE AT THE END OF THE PROJECT.
- PIPING AND DUCTWORK LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO COMMENCING WORK.
- SEE VAV BOX AND HEATING COIL VALVES SCHEDULES ON M6.3 FOR 2-WAY OR 3-WAY CONTROL VALVE.
- SEE M6.1-M6.7 FOR MECHANICAL LEGEND, SCHEDULES AND DETAILS.
- PROVIDE ACCESS PANEL IF NECESSARY IN HARD LID CEILING OR WALL FOR ACCESS TO VAV UNITS OR HVAC EQUIPMENT THAT REQUIRES MAINTENANCE.
- PROVIDE VANES FOR ALL RECTANGULAR ELBOWS.
- PROVIDE MANUAL VOLUME DAMPERS IN ALL DUCT BRANCHES TO DIFFUSERS. LOCATE AS CLOSE TO MAIN TRUNK AS POSSIBLE IN ACCESSIBLE CEILING.
- NEW AND MODIFIED HVAC UNITS: REBALANCE ALL EXISTING DIFFUSERS AND GRILLES TO AIR FLOWS NOTED ON THE DRAWINGS.
- REPLACE ZONE SENSOR WITH NEW DIGITAL DEVICE. LABEL WITH ASSOCIATED EQUIPMENT INFORMATION. WHERE NLL SENSOR IS NO LONGER USED PROVIDE A STAINLESS STEEL COVER PLATE OVER HOLE & SECURE.
- REFURBISH UNIT. ALTER CONTROLS FROM MZU TO VAV SYSTEM. DEMO OF ALL (E) CONTROLS BY CONTROL CONTRACTOR. CLEAN CABINETS, FAN WHEELS. REPLACE BELT, BEARINGS AND SHEAVES. REPLACE EXISTING LINING WITH PERFORATED LINING.

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- PROVIDE NEW FILTER, HEATING COIL, DX COOLING COIL AND SUPPLY FAN IN EXISTING AHU-1, 2, & 13 AND MODIFY HEATING WATER PIPING AS REQUIRED. SEE DETAIL M6.7 FOR HEATING WATER PIPING DIAGRAM.
- AC-1-AC-7, MAU-1, DAH-1, F-1-F-6 GAS PIPING NOTE: MODIFY AND CONNECT GAS PIPING TO NEW UNITS AS REQUIRED.



1 HVAC ROOF PLAN - SECTOR A
M2.1 SCALE: 1/16"=1'-0"

2 - ADDENDUM #3 3/2/2018
1 - ADDENDUM #2 2/22/2018

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CONTACT: Elena von Kamens

A NEW REMODEL PROJECT FOR:

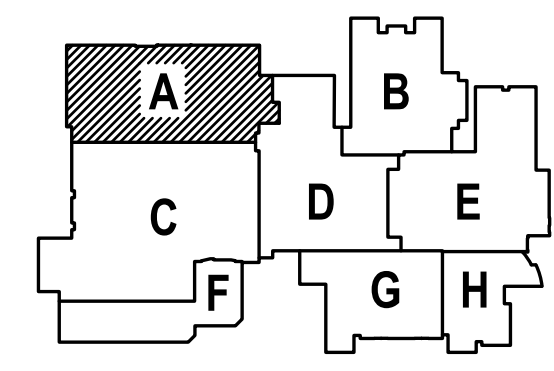
SHERWOOD HIGH SCHOOL

16956 SW MEINECKE ROAD SHERWOOD, OR

REGISTERED PROFESSIONAL
ENGINEER
17887
July 25 1989
SCOTT W. MILLER
EXPIRES: 31DEC18

DRAWN BY:	EVK
CHECKED BY:	SWM
DATE:	1-30-18
TITLE:	HVAC ROOF PLAN - SECTOR A
SCALE:	1/16" = 1'-0"

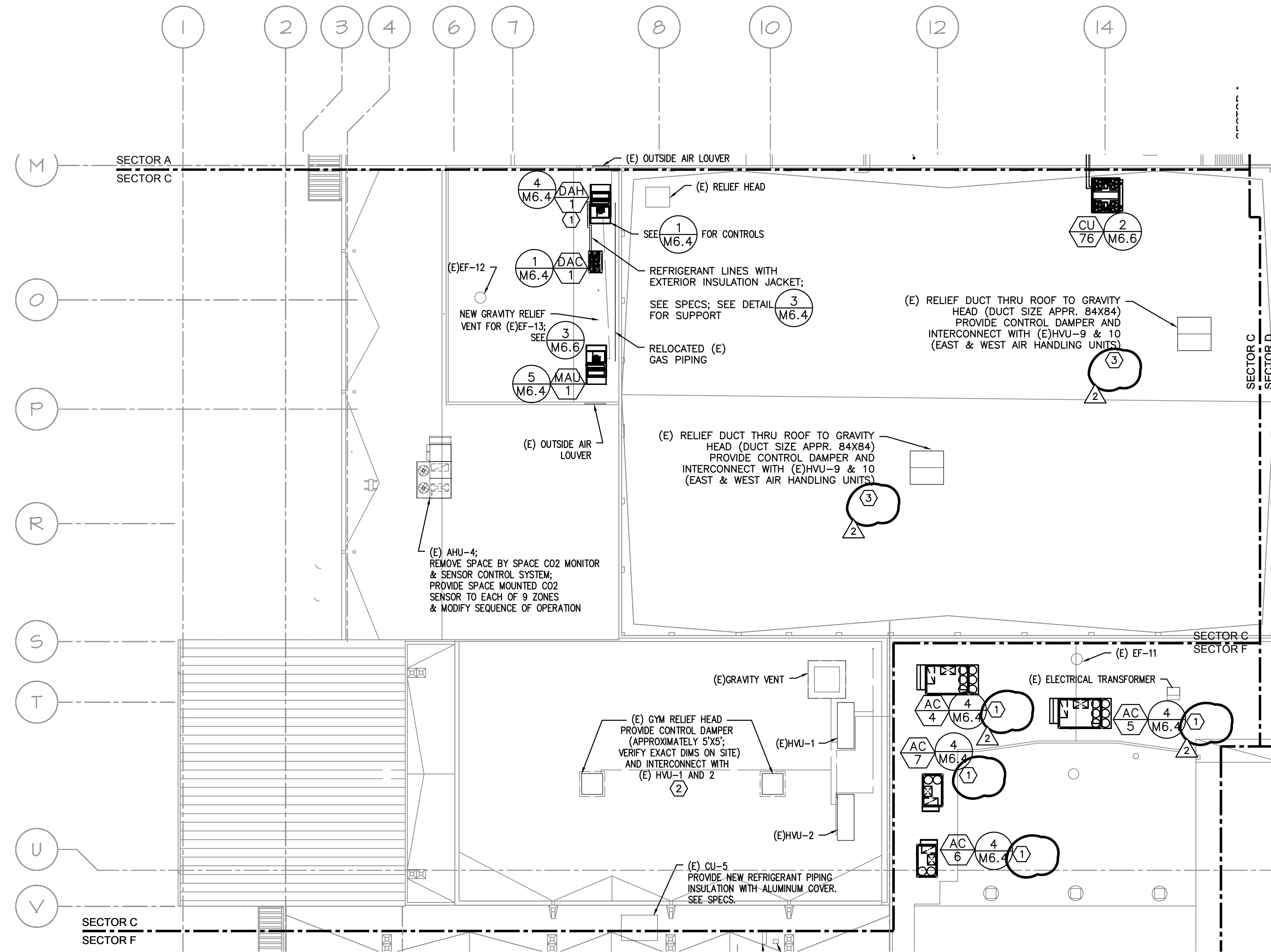
△ SHEET IS REVISED PER ADDENDUM #2.



SHEET NO:	M-2.1
OF	8

GENERAL SHEET NOTES:

- CONTRACTOR TO VERIFY LOCATION AND SIZES OF EXISTING DUCTWORK, PIPING, EQUIPMENT, CONTROLS, ETC. PRIOR TO COMMENCING WORK. IF SHOWN LOCATION OR SIZE DIFFER FROM PLANS, LOCATE THE CORRECT SIZE ON SITE AND ADJUST CONNECTION ACCORDINGLY. PROVIDE NEW DUCT, PIPING, EQUIPMENT, CONTROLS AND ETC. IF ONE IS NOT PRESENT.
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 - PIPING AND DUCTWORK LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO COMMENCING WORK.
 - SEE VAV BOX AND HEATING COIL VALVES SCHEDULES ON M6.3 FOR 2-WAY OR 3-WAY CONTROL VALVE.
 - SEE M6.1-M6.7 FOR MECHANICAL LEGEND, SCHEDULES AND DETAILS.
 - PROVIDE ACCESS PANEL IF NECESSARY IN HARD LID CEILING OR WALL FOR ACCESS TO VAV UNITS OR HVAC EQUIPMENT THAT REQUIRES MAINTENANCE.
 - PROVIDE VANES FOR ALL RECTANGULAR ELBOWS.
 - PROVIDE MANUAL VOLUME DAMPERS IN ALL DUCT BRANCHES TO DIFFUSERS. LOCATE AS CLOSE TO MAIN TRUNK AS POSSIBLE IN ACCESSIBLE CEILING.
 - NEW AND MODIFIED HVAC UNITS: REBALANCE ALL EXISTING DIFFUSERS AND GRILLES TO AIR FLOWS NOTED ON THE DRAWINGS.
 - REPLACE ZONE SENSOR WITH NEW DIGITAL DEVICE. LABEL WITH ASSOCIATED EQUIPMENT INFORMATION. WHERE NULL SENSOR IS NO LONGER USED PROVIDE A STAINLESS STEEL COVER PLATE OVER HOLE & SECURE.
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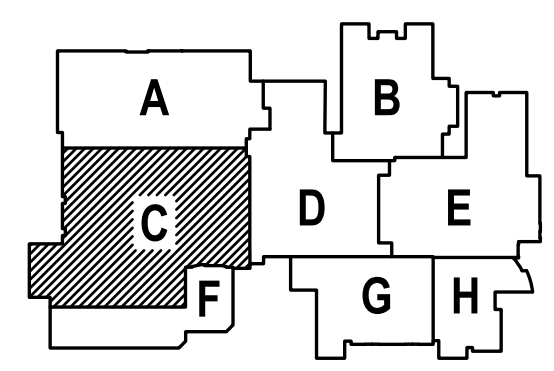


1 HVAC ROOF PLAN-SECTOR C
M2.3 SCALE: 1/16"=1'-0"

KEYED NOTES:

- INSTALL (E) CONTROLLER IN UNIT OR ON NORTH SIDE OF UNIT IN NEMA 3R ENCLOSURE. EXTEND NETWORK CABLE AS REQUIRED. WIRE TO ALL SENSORS PER SPECS & LABEL. LABEL ALL NEW CONTROL DEVICES PER SPECS. PROVIDE ADDITIONAL CONTROLLER CAPACITY AS REQUIRED.
- MODULATE DAMPER WITH (E)HVU-1 & 2 OSA DAMPER SIGNAL. PROGRAM OFFSET PER BALANCER TO MAINTAIN POSITIVE SPACE PRESSURE.
- MODULATE DAMPER WITH (E)HVU-9 & 10 OSA DAMPER SIGNAL. PROGRAM OFFSET PER BALANCER TO MAINTAIN POSITIVE SPACE PRESSURE.

1
SHEET IS REVISED PER ADDENDUM #2.



2 - ADDENDUM #3
3/2/2018
1 - ADDENDUM #2
2/22/2018

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A NEW REMODEL PROJECT FOR:

SHERWOOD HIGH SCHOOL

16956 SW MEINCKE ROAD
SHERWOOD, OR

REGISTERED PROFESSIONAL
ENGINEER
1788
July 25 1989
SCOTT W. MILLER
EXPIRES: 31DEC18

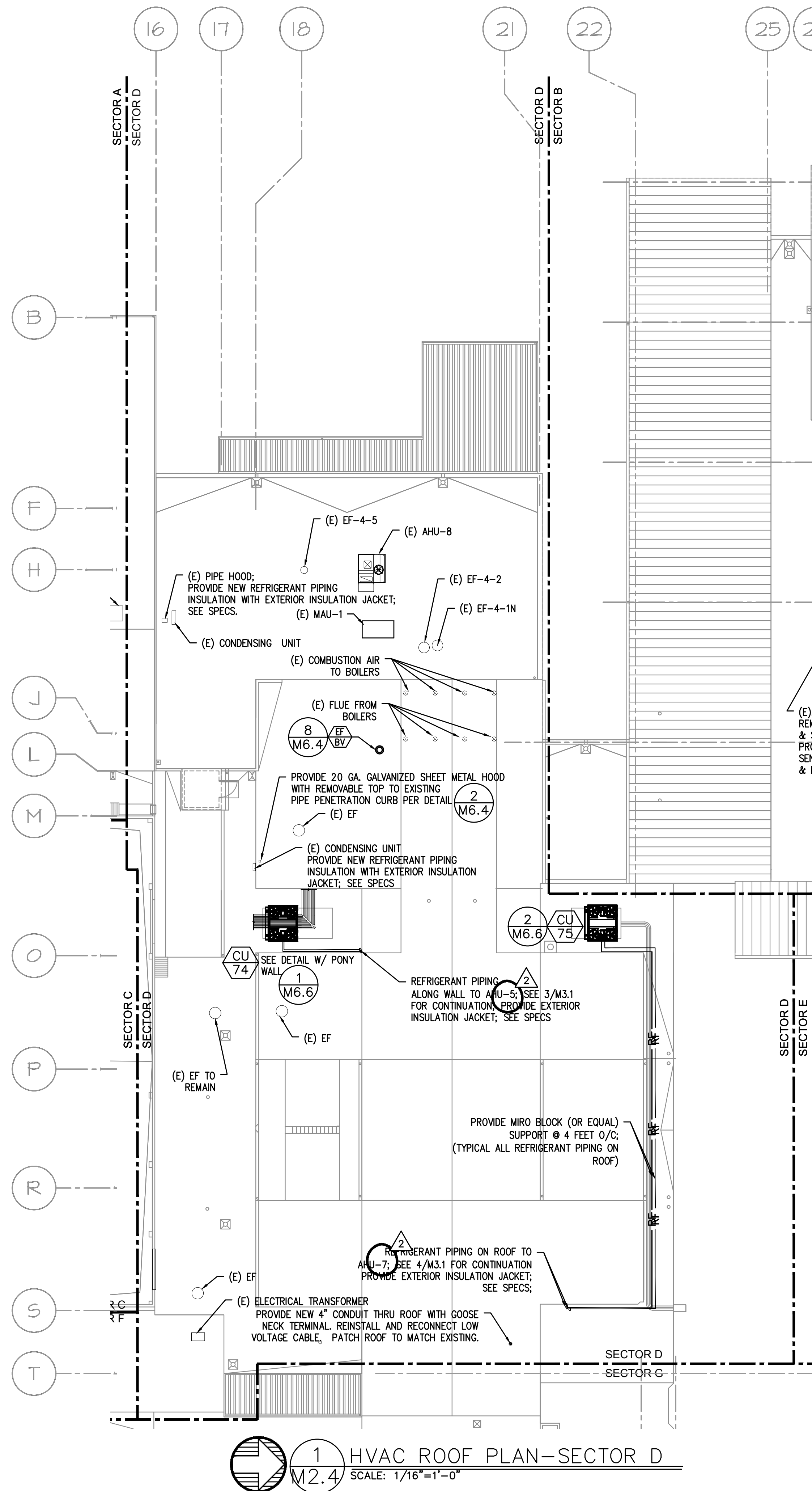
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CHECKED BY:	SWM
DATE:	1-30-18
TITLE:	HVAC ROOF PLAN- SECTOR C
SCALE:	1/16" = 1'-0"

SHEET NO:	M-2.3
OF	8

GENERAL SHEET NOTES:

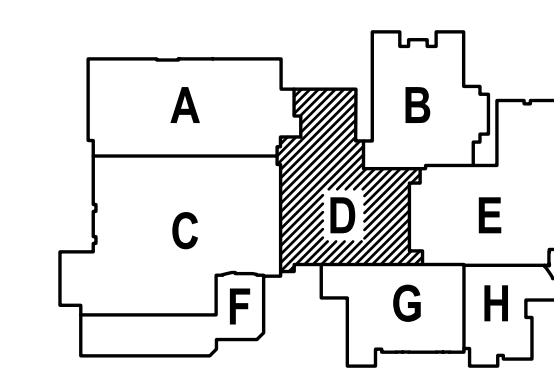
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- AC-1-AC-7, MAU-1, DAH-1, F-1-F-6 GAS PIPING NOTE: MODIFY AND CONNECT GAS PIPING TO NEW UNITS AS REQUIRED.



1 HVAC ROOF PLAN-SECTOR D
SCALE: 1/16"=1'-0"

△ SHEET IS REVISED PER ADDENDUM #2.



△ -ADDENDUM #3
3/2/2018
△ -ADDENDUM #2
2/22/2018

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A NEW REMODEL PROJECT FOR:

SHERWOOD HIGH SCHOOL

16956 SW MEINECKE ROAD
SHERWOOD, OR

REGISTERED PROFESSIONAL
ENGINEER
SCOTT W. MILLER
EXPIRES: 31DEC18

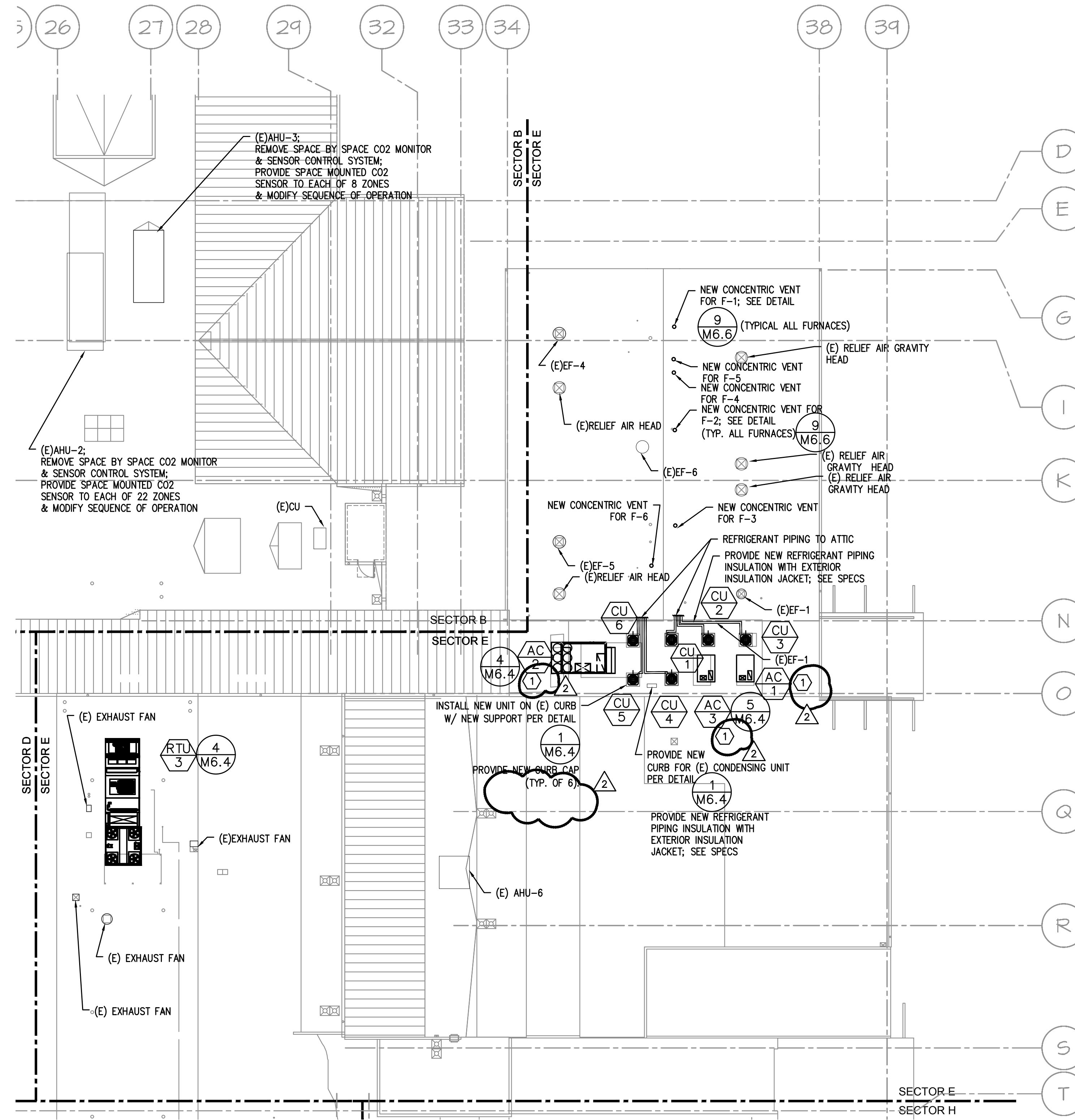
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DATE:	1-30-18
TITLE:	HVAC ROOF PLAN- SECTOR D
SCALE:	1/16" = 1'-0"

SHEET NO:	M-2.4
OF	8

GENERAL SHEET NOTES:

- CONTRACTOR TO VERIFY LOCATION AND SIZES OF EXISTING DUCTWORK, PIPING, EQUIPMENT, CONTROLS, ETC. PRIOR TO COMMENCING WORK. IF SHOWN LOCATION OR SIZE DIFFER FROM PLANS, LOCATE THE CORRECT SIZE ON SITE AND ADJUST CONNECTION ACCORDINGLY. PROVIDE NEW DUCT, PIPING, EQUIPMENT, CONTROLS AND ETC. IF ONE IS NOT PRESENT.
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- NEW AND MODIFIED HVAC UNITS: REBALANCE ALL EXISTING DIFFUSERS AND GRILLES TO AIR FLOWS NOTED ON THE DRAWINGS.
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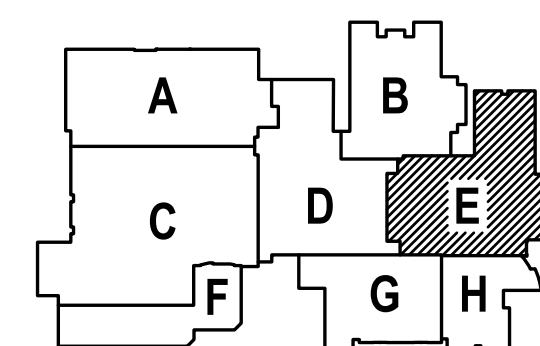


1 HVAC ROOF PLAN-SECTOR E
M2.5 SCALE: 1/16" = 1'-0"

KEYED NOTES:

① - INSTALL (E) CONTROLLER IN UNIT OR ON NORTH SIDE OF UNIT IN NEMA 3R ENCLOSURE. EXTEND NETWORK CABLE AS REQUIRED. WIRE TO ALL SENSORS PER SPECS & LABEL ALL NEW CONTROL DEVICES PER SPECS. PROVIDE ADDITIONAL CONTROLLER CAPACITY AS REQUIRED.

△ SHEET IS REVISED PER ADDENDUM #2.



△ -ADDENDUM #3
3/2/2018
△ -ADDENDUM #2
2/22/2018

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CONTACT: Elena von Kamens

A NEW REMODEL PROJECT FOR:
SHERWOOD HIGH SCHOOL
16956 SW MEINECKE ROAD
SHERWOOD, OR

REGISTERED PROFESSIONAL
ENGINEER
17820
July 25, 1989
SCOTT W. MILLER
EXPIRES: 31DEC18

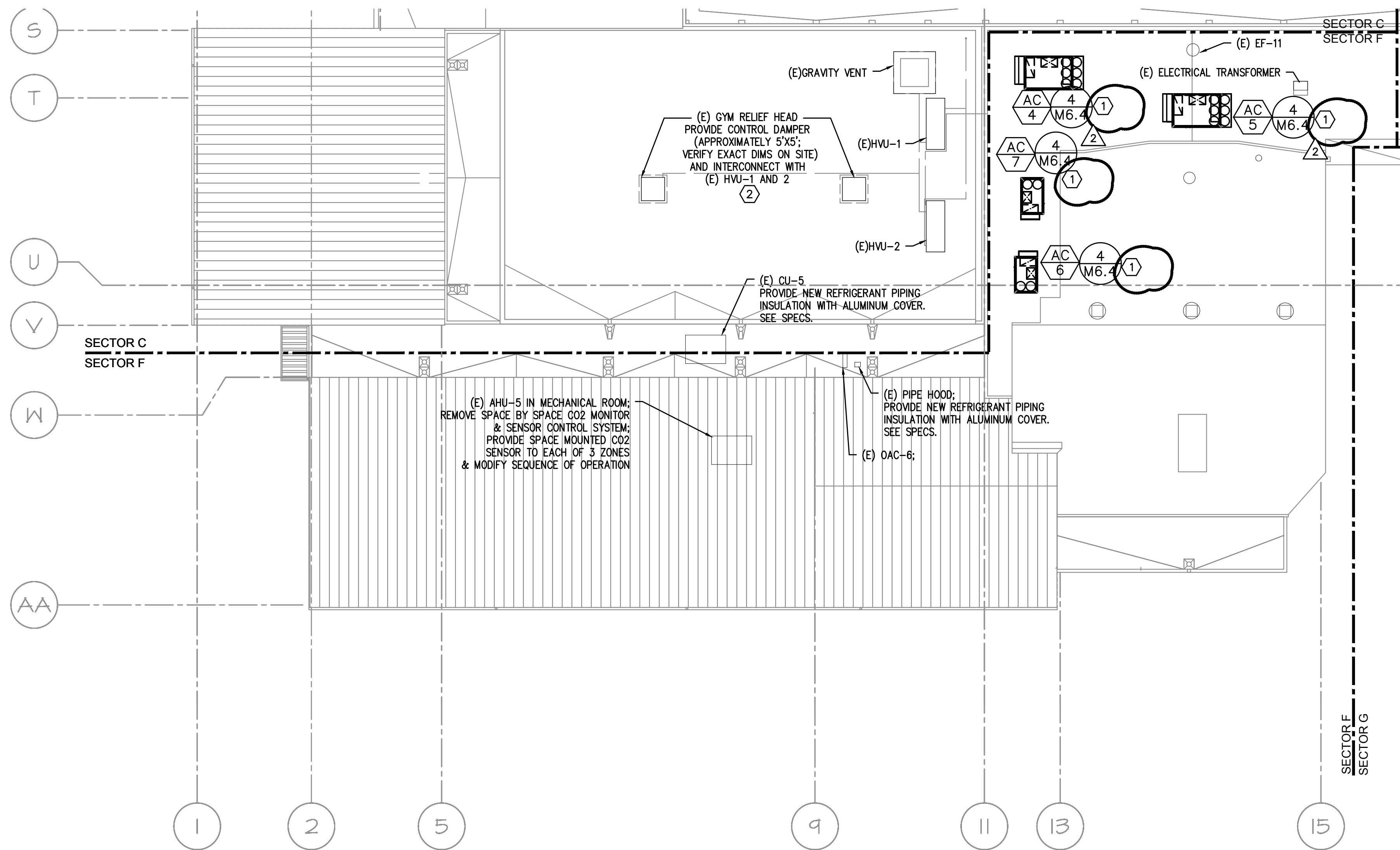
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CHECKED BY: SWM
DATE: 1-30-18
TITLE: HVAC ROOF PLAN-SECTOR E
SCALE: 1/16" = 1'-0"

SHEET NO:
M-2.5
OF 8

GENERAL SHEET NOTES:

- CONTRACTOR TO VERIFY LOCATION AND SIZES OF EXISTING DUCTWORK, PIPING, EQUIPMENT, CONTROLS, ETC. PRIOR TO COMMENCING WORK. IF SHOWN LOCATION OR SIZE DIFFER FROM PLANS, LOCATE THE CORRECT SIZE ON SITE AND ADJUST CONNECTION ACCORDINGLY. PROVIDE NEW DUCT, PIPING, EQUIPMENT, CONTROLS AND ETC. IF ONE IS NOT PRESENT.
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- PROVIDE ACCESS PANEL IF NECESSARY IN HARD LID CEILING OR WALL FOR ACCESS TO VAV UNITS OR HVAC EQUIPMENT THAT REQUIRES MAINTENANCE.
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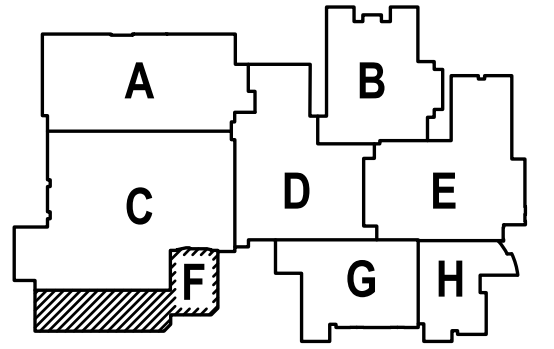


1 HVAC ROOF PLAN-SECTOR F
SCALE: 1/16" = 1'-0"

KEYED NOTES:

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△ SHEET IS REVISED PER ADDENDUM #2.



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503.622.7560 FAX
PAUL@PAULBENTLEYARCHITECT.COM

PAUL L BENTLEY Architect A.I.A. P.C.

△ -ADDENDUM #3
3/2/2018
① -ADDENDUM #2
2/22/2018

M
E
A

INC.

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A NEW REMODEL PROJECT FOR:

SHERWOOD HIGH SCHOOL

16956 SW MEINECKE ROAD SHERWOOD, OR

DRAWN BY:	EVK
CHECKED BY:	SWM
DATE:	1-30-18
TITLE:	HVAC ROOF PLAN-SECTOR F
SCALE:	1/16" = 1'-0"
SHEET NO:	M-2.6
OF	8