

**NOTES**

- 1 PROVIDE NEW TRUNK DUCT, NEW FIRE SMOKE DAMPER, NEW VENTURI VALVE, NEW REHEAT COIL, AND NEW BRANCH DUCTS AND DIFFUSERS FOR MAKEUP AIR TO THE NEW FUME HOODS. REUSE EXISTING THERMOSTAT TO HC20C IF IN GOOD WORKING CONDITION, OTHERWISE REPLACE. PROVIDE POWER TO NEW FIRE SMOKE DAMPER AND ANNUNCIATE BACK TO FIRE ALARM SYSTEM.
- 2 NEW 6 FOOT FUME HOODS, 800 CFM, TYP. 2. PROVIDE NEW VENTURI EXHAUST VALVES AND FUME HOOD CONTROLLERS.
- 3 PRELIMINARY LOCATION FOR NEW FUME HOOD CONTROLLER.
- 4 NEW 30x12 STAINLESS STEEL EXHAUST MAIN AND BRANCHES TO SERVE NEW AND EXISTING FUME HOODS. PROVIDE NEW HORIZONTAL AND VERTICAL DUCTWORK UP INTO SHAFT AND OUT ON ROOF TO EXHAUST FAN EF4C. PROVIDE NEW MOTOR FOR EF4C.
- 5 RELOCATE EXISTING SNORKEL DUCT. STUB OUT AT LOCATION SHOWN. PROVIDE A DUCT DROP AND DAMPER FOR FUTURE CONNECTION TO A NEW SNORKEL THAT WILL BE PROVIDED BY END USERS.
- 6 EXISTING EXHAUST DUCTWORK FROM EXISTING FUME HOODS TO REMAIN AND TIE IN TO NEW MAIN EXHAUST DUCTWORK.
- 7 NOT USED
- 8 ADD ALTERNATE: PROVIDE 2" EXHAUST AND SUPPLY DUCTS TO CHEMICAL STORAGE CABINET. COORDINATE EXACT LOCATION TO CONNECT TO CABINET IN FIELD.
- 9 REUSE EXISTING THERMOSTAT FOR HC21C IF IN GOOD CONDITION, OTHERWISE REPLACE. CLEAN AND RECALIBRATE THE SENSOR AND DEMONSTRATE THAT THE SIGNAL FROM THE SENSOR PROPERLY OPERATES THE REHEAT COIL VALVE TO MAINTAIN ZONE TEMPERATURE.
- 10 NEW SUPPLY DUCT POINT OF CONNECTION TO EXISTING SUPPLY DUCT TO ACCOMMODATE ADDITIONAL AIR FOR MAKEUP TO NEW FUME HOODS. PROVIDE NEW SHEAVES AT AHU-6 AND SPEED UP AHU-6 TO PROVIDE ADDITIONAL 2,000 CFM FOR SERVICE TO NEW FUME HOODS IN C161 AND NEW SNORKELS IN C155.
- 11 ADD ALTERNATE: PROVIDE NEW BRANCH DUCT, NEW UP-SIZED VENTURI VALVE, UP-SIZED REHEAT COIL, HW PIPING, THERMOSTAT, AND INCREASED SUPPLY DIFFUSERS FOR MAKEUP TO EXISTING HOOD AND NEW SNORKELS IN C155.
- 12 ADD ALTERNATE: PROVIDE NEW SS DUCTWORK, VENTURI EXHAUST VALVE AND 2 SNORKEL DROPS FOR RELOCATED EQUIPMENT IN C155. TIE EXISTING FUME HOOD EXHAUST DUCT INTO NEW DUCTWORK. PROVIDE NEW 14" DUCT IN SHAFT UP TO ROOF AND OUT TO CONNECT TO FAN EF5C. PROVIDE NEW FAN MOTOR AT FAN EF5C. PROVIDE FIRE WRAP AT EXHAUST DUCT UP TO SHAFT.
- 13 REUSE EXISTING THERMOSTAT FOR RHC 24C IF IN GOOD CONDITION, OTHERWISE REPLACE. CLEAN AND RECALIBRATE THE SENSOR AND DEMONSTRATE THAT THE SIGNAL FROM THE SENSOR PROPERLY OPERATES THE REHEAT COIL VALVE TO MAINTAIN ZONE TEMPERATURE.
- 14 EXISTING FUME HOOD CONTROLLER TO REMAIN
- 15 EXISTING FUME HOOD CONTROLLER. COORDINATE LOCATION WITH RELOCATED EYEWASH.
- 16 NEW FSD. PROVIDE POWER AND INTERFACE TO FIRE ALARM SYSTEM. AS PART OF THE WORK OF THIS SECTION THE CONTRACTOR SHALL HIRE AN ELECTRICAL CONTRACTOR TO PROVIDE POWER TO THE NEW FSD AND SHALL HIRE THE FIRE ALARM CONTRACTOR TO PROVIDE COMMUNICATION FROM THE NEW FSD BACK TO THE CAMPUS FIRE ALARM SYSTEM.
- 17 NEW SNORKEL EXHAUST. PROVIDE FIELD FABRICATED SNORKEL EXHAUSTS TO MATCH THE EXISTING SNORKEL EXHAUST FOUND IN ROOM 164. PROVIDE THE EXACT TYPE OF SNORKEL INTAKE DUCT COMPLETE WITH VOLUME DAMPER AND DAMPER ADJUSTMENT KNOB AND WALL OR SLAB MOUNTED SUPPORT BAR AND MOUNTING BRACKETS TO MATCH THE EXISTING SNORKELS.
- 18 PATCH AND REPAIR EXISTING CEILINGS AND WALLS THROUGHOUT THE PROJECT WHEREVER THE CEILING AND WALLS REQUIRE DEMOLITION TO PERFORM THE WORK. THIS APPLIES TO ALL WORK ON THE FIRST FLOOR WING C CORRIDOR, TOILET ROOM, AND SHAFT WALLS ON THE FIRST AND SECOND FLOORS OF WING C WHERE THE NEW SUPPLY AND EXHAUST DUCTWORK AND NEW PIPING WILL BE INSTALLED. THIS ALSO APPLIES TO THE NEW WORK IN THE CORRIDOR OF THE SECOND FLOOR, WING C BELOW COLUMN P FOR THE NEW PIPING. FOR NEW DUCTWORK OR PIPING SPECIFIED OVER AN EXISTING HARD LID GYPSUM BOARD CEILING, THE FINISH AND FRAMING SHOULD BE REMOVED FOR THE ENTIRE PORTION OF THE CEILING DIRECTLY BENEATH THE NEW WORK TO ALLOW FOR INSTALLATION, AS WELL AS ANY PORTIONS OF THE CEILING THAT SHOULD BE REMOVED TO ALLOW FOR INSTALLATION OF BRACING WIRES THAT ATTACH TO THE STRUCTURE BEYOND THE FOOTPRINT OF THE WORK. THE EXISTING FINISH SHOULD BE REMOVED BACK TO THE NEAREST FRAMING MEMBER ON ALL SIDES. ALL EXISTING HARD LID CEILINGS REMOVED TO ACCOMMODATE THE NEW INSTALLATION SHALL BE REPLACED WITH FRAMING AND GYP BO-1 PER DETAILS 3, 4 AND 5 ON SHEET A662. CONTRACTOR TO MATCH EXISTING ADJACENT FINISH, AND BLEND ALL FINISH TRANSITIONS. ONE COAT OF PAINT (PT-1, COLOR TO MATCH ADJACENT) SHOULD BE PROVIDED FOR THE ENTIRE SURFACE OF ANY CEILING THAT RECEIVES PARTIAL DEMOLITION FOR THE NEW INSTALLATION. REBUILD NEW SHAFT WALLS SIMILAR TO SCOPE OF RE-BUILT CEILINGS AND PAINT TO MATCH EXISTING. REFER TO ARCHITECTURAL LSHEET A660 FOR CONSTRUCTION DETAILS.



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Project Title  
**ENGINEERING & TECHNOLOGY CORE RENOVATION**

**CALIFORNIA STATE UNIVERSITY, LOS ANGELES**

5151 STATE UNIVERSITY DR.  
 LOS ANGELES, CA 90032

Revisions	Number	Description	Date
	1	ISSUE FOR BID	1-18-12
	2	ADDENDUM #1	2-24-12

Designed GM  
 Drawn  
 Checked GM  
 Approved

Date 1-18-12

Submittal ISSUE FOR BID

Scale 1/4" = 1'-0"

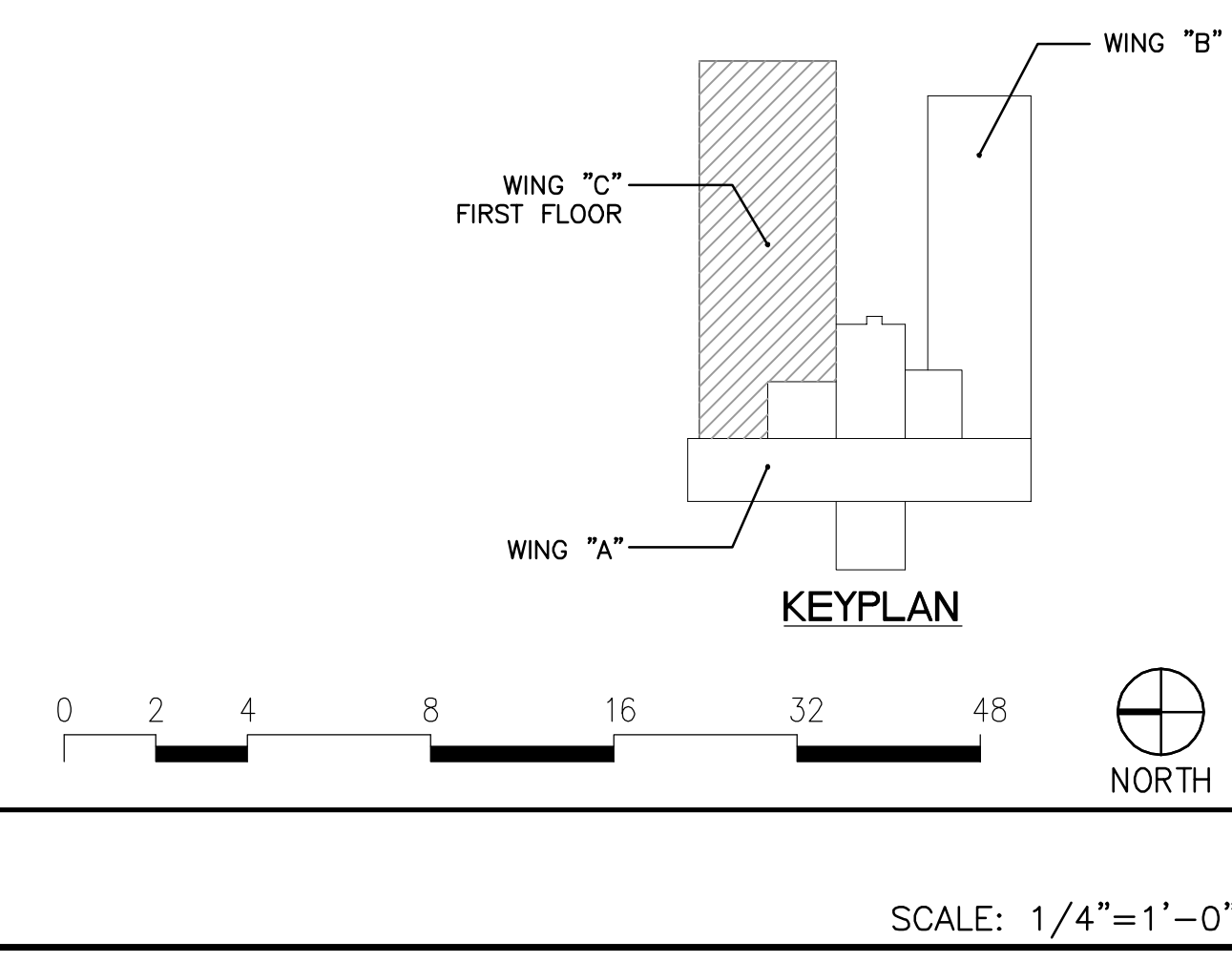
Sheet Title

**RMS C155 & C161 MECHANICAL RENOVATION PLAN**

Sheet Number

**M2.1**

J6098



**ROOMS C155 AND C161 MECHANICAL RENOVATION PLAN**

SCALE: 1/4"=1'-0"

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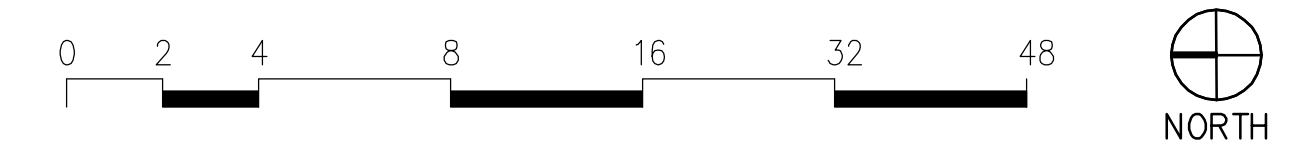
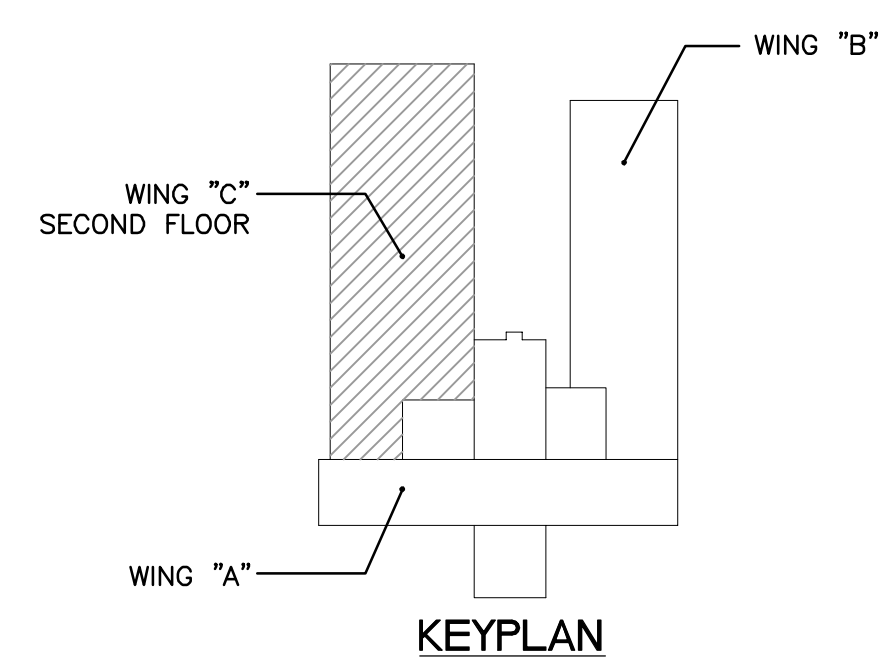
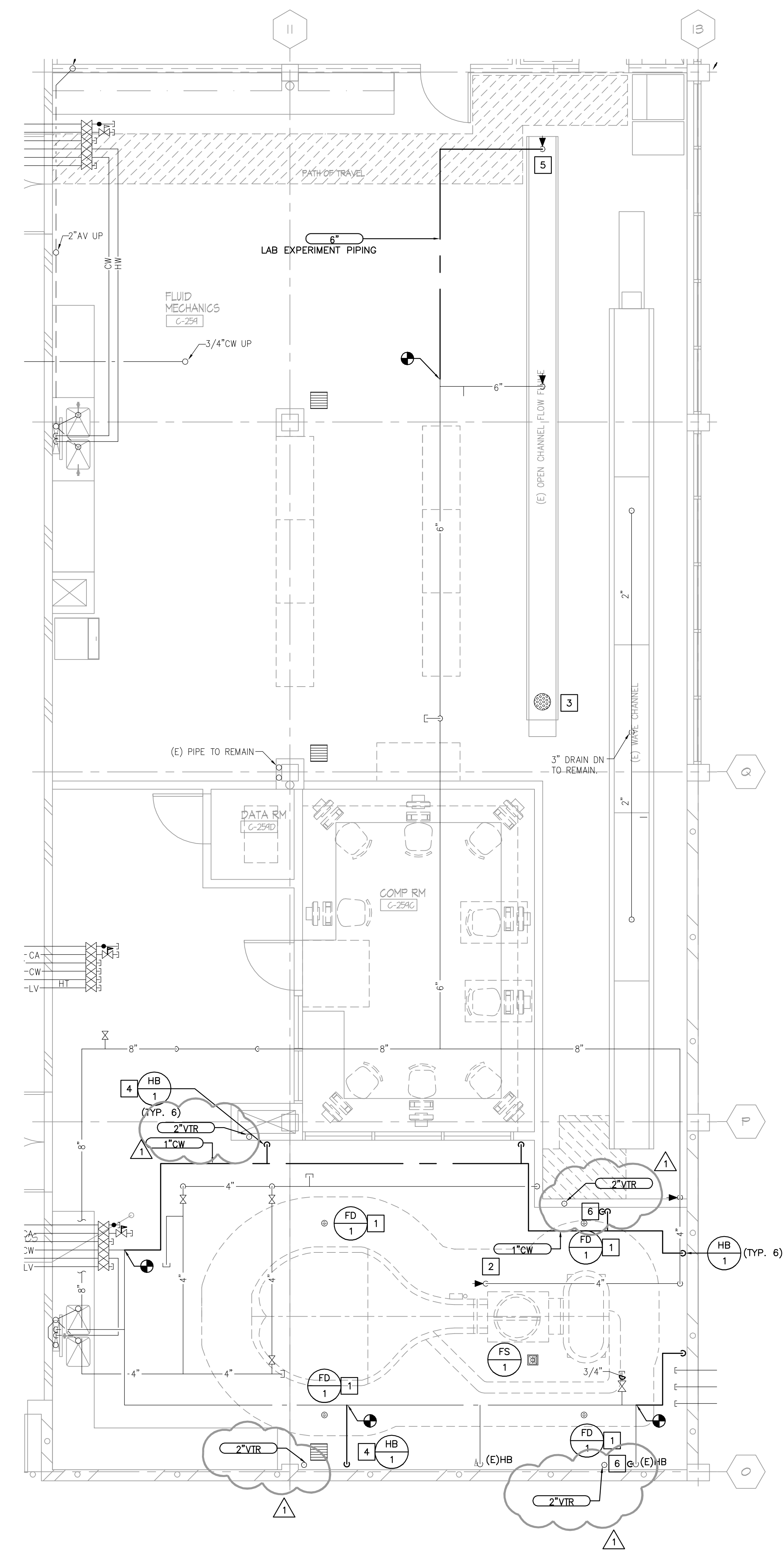






**NOTES**

- 1 PROVIDE EMERGENCY FLOOR DRAIN COMPLETE WITH P-TRAP AND VENT. CONNECT TO NEW WASTE PIPING BELOW FLOOR.
- 2 PROVIDE 4" LAB EXPERIMENT WATER PIPING TO NEW EQUIPMENT. FIELD VERIFY EXACT LOCATION OF POINT OF CONNECTION AND EXTEND AS REQUIRED.
- 3 PROVIDE 8" DRAIN RECEPTOR AND CONNECT TO EXISTING 8" DRAIN BELOW FLOOR.
- 4 PROVIDE 3/4" CW DOWN TO HOSE BIB COMPLETE WITH LINE SIZE SHUT-OFF VALVE.
- 5 PROVIDE 6" LAB EXPERIMENT WATER PIPING TO NEW LOCATION OF OPEN CHANNEL WATER FLUME COMPLETE WITH SHUT-OFF VALVE. MATCH INSTALLATION WITH EXISTING CONFIGURATION. FIELD VERIFY EXACT LOCATION OF POINT OF CONNECTION AND EXTEND AS REQUIRED.
- 6 PROVIDE MIFAB M2-500 TRAP PRIMER WITH DISTRIBUTION BOX AND ROUTE 1/2" TYPE L COPPER TO EACH FLOOR DRAINS AND FLOOR SINK.



**ROOM C259 PLUMBING RENOVATION PLAN**

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Scale: 1/4"=1'-0"

Sheet Title  
**C259 PLUMBING RENOVATION PLAN**

Sheet Number  
**P2.6**  
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