

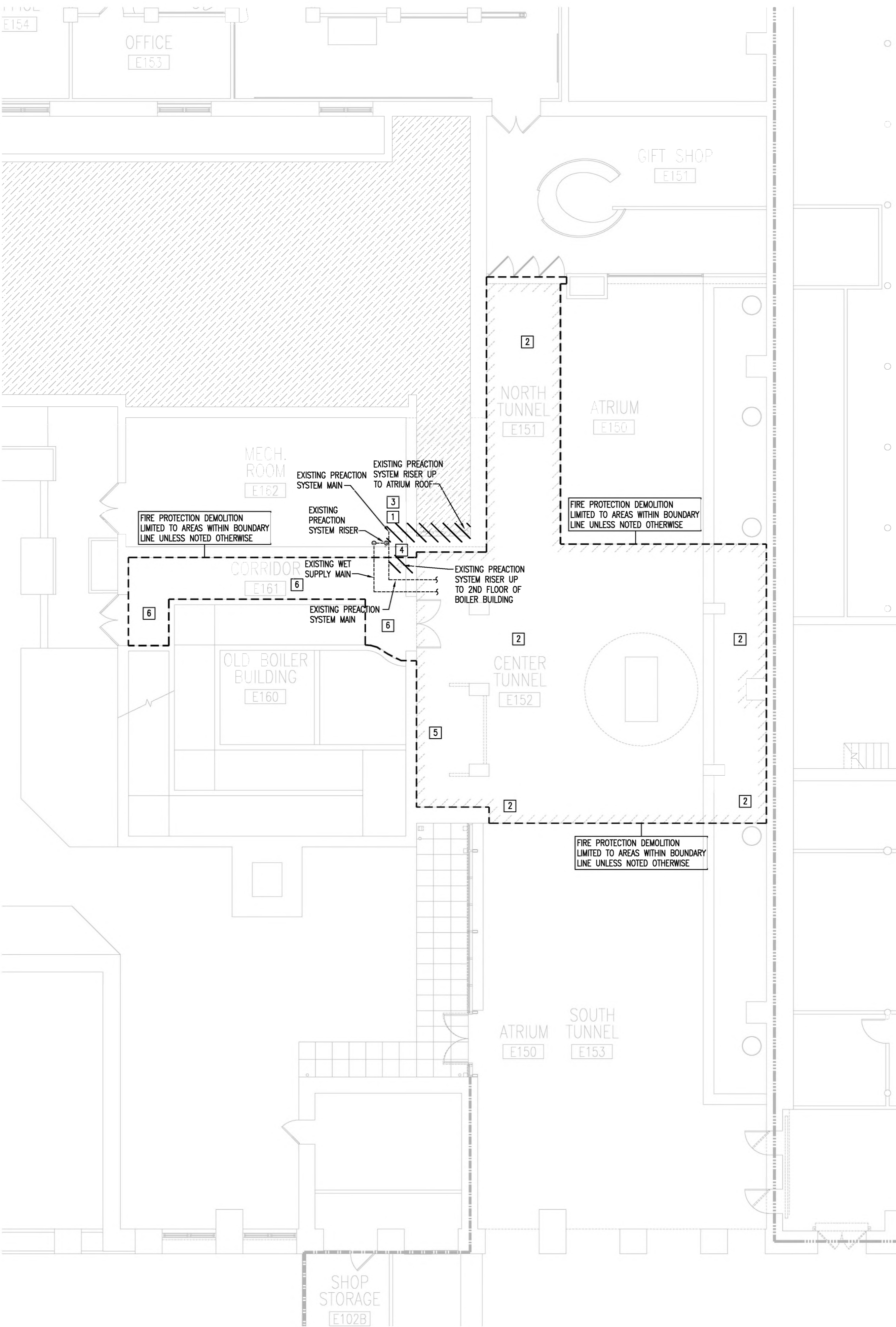
- DEMOLITION KEYNOTES:**
- PERFORM PREACTION SYSTEM OPERATIONAL TEST IN ACCORDANCE WITH NFPA 13 AND NFPA 72 PRIOR TO MAKING MODIFICATIONS TO EXISTING SYSTEM TO VERIFY ALL EXISTING COMPONENTS ARE IN SATISFACTORY CONDITION. RECORD TEST RESULTS, INCLUDING PREACTION VALVE TRIP TIME, WATER DELIVERY TIME TO INSPECTOR'S TEST, AND TIME IT TAKES EXISTING COMPRESSOR TO FILL SYSTEM PIPING. NOTIFY GC/ARCHITECT/ENGINEER IF TEST RESULTS DO NOT MEET THE REQUIREMENTS OF NFPA 13 AND NFPA 72.
 - REPLACE ALL EXISTING CHROME STANDARD RESPONSE SPRINKLERS AND ESCUTCHEONS UNDER THE FIRST FLOOR CEILING WITHIN THE BOUNDARY LINE WITH NEW CHROME QUICK RESPONSE SPRINKLERS WITH SEMI-RECESSED ESCUTCHEONS.
 - DEMOLISH EXISTING PREACTION SYSTEM PIPING AT ATRIUM ROOF COMPLETE TO TOP OF EXISTING PREACTION SYSTEM RISER IN MECHANICAL ROOM.
 - DEMOLISH EXISTING PREACTION SYSTEM PIPING ON SECOND FLOOR IN BOILER BUILDING AND GREENHOUSE COMPLETE TO CONNECTION TO EXISTING MAIN PIPING ON FIRST FLOOR.
 - DEMOLISH TWO EXISTING WHITE QUICK RESPONSE SPRINKLERS, ESCUTCHEONS, DROPS, AND ARM-OVERS UNDER THE FIRST FLOOR CEILING NEXT TO THE VENDING AREA COMPLETE AND PLUG AT CONNECTIONS TO PREACTION SYSTEM MAIN/LINE.
 - REPLACE ALL EXISTING UPRIGHT STANDARD RESPONSE SPRINKLERS IN CORRIDOR E161 WITH NEW BRASS QUICK RESPONSE SPRINKLERS.

DEMOLITION AND RENOVATION PLAN LEGEND	
DEMO PIPING	-----
EXISTING PIPING	-----
NEW PIPING	-----
AREA OF DEMOLITION	////
PIPING DOWN	c
PIPING UP	o
PIPING CONTINUES	s

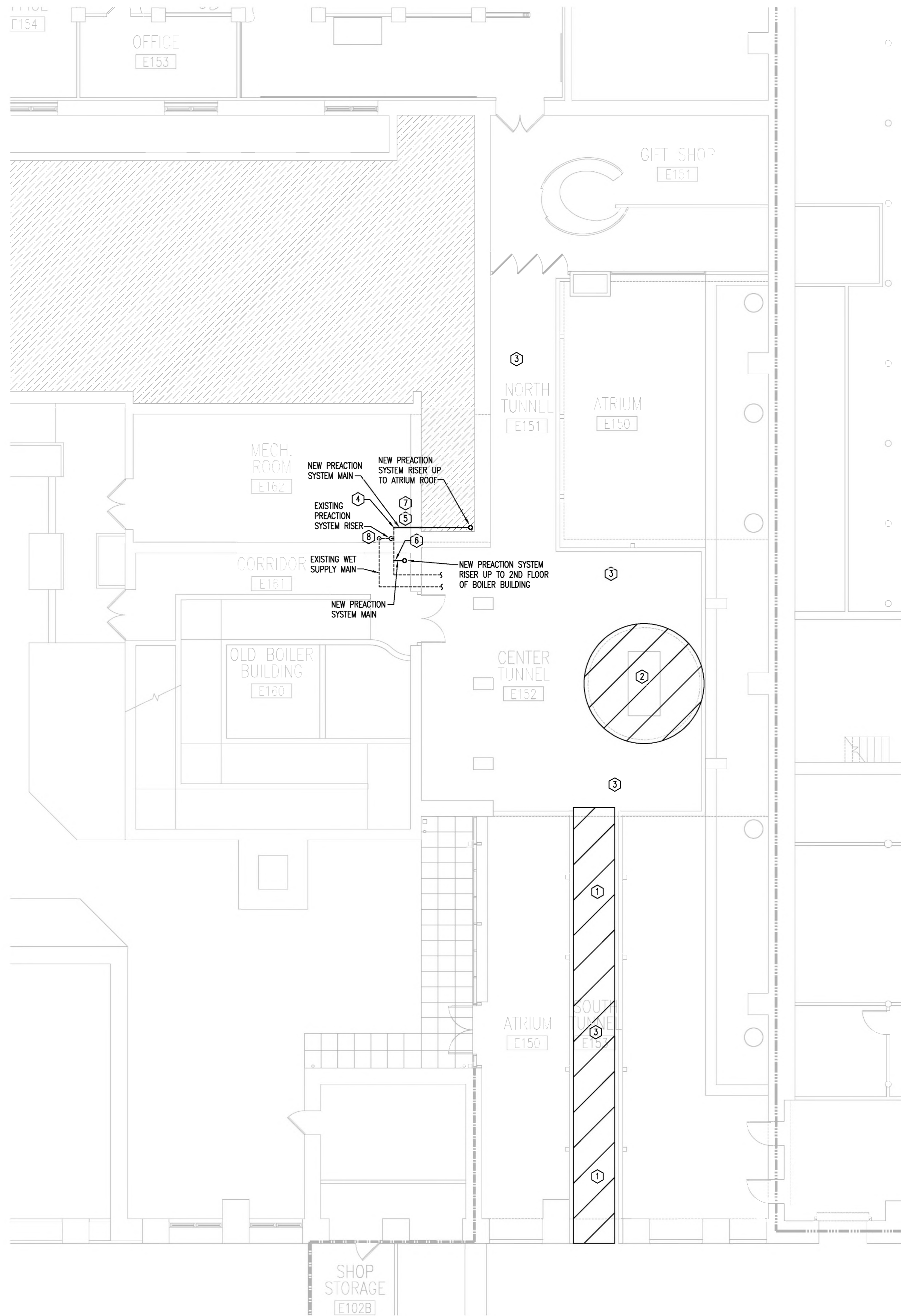
- RENOVATION KEYNOTES:**
- PROVIDE TEMPORARY LIGHT HAZARD SPRINKLER PROTECTION, COMPLETE WITH SPRINKLERS AND HEAT DETECTORS, IN THE TEMPORARY CIRCULATION TUNNEL AND CONNECT TO THE EXISTING PREACTION SPRINKLER SYSTEM. THE TEMPORARY CIRCULATION TUNNEL WILL BE DEMOLISHED AT THE COMPLETION OF THE PROJECT AND THE SPRINKLER PROTECTION PROVIDED IN THIS TUNNEL SHALL ALSO BE DEMOLISHED, IN CONJUNCTION WITH THE TUNNEL DEMOLITION, TO THE CONNECTIONS TO THE EXISTING PREACTION SYSTEM.
 - THE EXISTING CEILING OPENING WILL BE TEMPORARILY COVERED DURING CONSTRUCTION. PROVIDE TEMPORARY LIGHT HAZARD SPRINKLER PROTECTION UNDER THE COVERED EXISTING CEILING OPENING AND CONNECT TO THE EXISTING PREACTION SPRINKLER SYSTEM. THE TEMPORARY COVER WILL BE DEMOLISHED AT THE COMPLETION OF THE PROJECT AND THE SPRINKLER PROTECTION PROVIDED UNDER THE COVER SHALL ALSO BE DEMOLISHED, IN CONJUNCTION WITH THE COVER DEMOLITION, TO THE CONNECTIONS TO THE EXISTING PREACTION SYSTEM.
 - PROVIDE AND INSTALL FIXED TEMPERATURE HEAT DETECTORS FOR PREACTION SYSTEM ACTIVATION WITH OPERATION TEMPERATURES LESS THAN THAT OF THE SPRINKLERS INSTALLED IN THE SAME AREA. DETECTORS SHALL BE LOCATED TO NOT EXCEED THEIR LISTED SPACING. SELECT HEAT DETECTORS THAT ARE COMPATIBLE WITH THE EXISTING PREACTION SYSTEM COMPONENTS. COORDINATE SYSTEM INTERCONNECTION WITH FIRE ALARM CONTRACTOR.
 - CONNECT NEW ATRIUM SYSTEM PIPING TO TOP OF EXISTING PREACTION SYSTEM RISER IN MECHANICAL ROOM.
 - CONNECT NEW HEAT DETECTORS TO THE EXISTING PREACTION SYSTEM RELEASE PANEL. COORDINATE SYSTEM INTERCONNECTION WITH FIRE ALARM CONTRACTOR.
 - CONNECT NEW BOILER BUILDING PIPING TO EXISTING PREACTION SYSTEM MAIN.
 - PROVIDE AND INSTALL SPRINKLER HEAD CABINET WITH SPARE SPRINKLERS AND SPRINKLER HEAD WRENCHES IN ACCORDANCE WITH NFPA 13 6.2.9. COORDINATE LOCATION WITH OWNER.
 - PERFORM PREACTION SYSTEM OPERATIONAL TEST IN ACCORDANCE WITH NFPA 13 AND NFPA 72 AFTER INSTALLATION OF ALL NEW SPRINKLER SYSTEM PIPING AND COMPONENTS. FINAL TESTING SHALL INCLUDE OPERATIONAL TESTING OF THE DETECTION SYSTEM FOR CONFORMANCE WITH NFPA 13 AND NFPA 72. RECORD TEST RESULTS, INCLUDING PREACTION VALVE TRIP TIME, WATER DELIVERY TIME TO INSPECTOR'S TEST, AND TIME IT TAKES EXISTING COMPRESSOR TO FILL SYSTEM PIPING. NOTIFY GC/ARCHITECT/ENGINEER IF TEST RESULTS DO NOT MEET THE REQUIREMENTS OF NFPA 13 AND NFPA 72.

PLAN HATCHING	DESIGN CRITERIA
////	- SYSTEM TYPE - PREACTION
	- HAZARD CLASSIFICATION - LIGHT
	- DESIGN DENSITY - 0.10 GPM/SQ.FT.
	- SYSTEM AREA OF OPERATION - 1500 SQ. FT.
	- MAX. COVERAGE PER SPRINKLER - 225 SQ. FT.

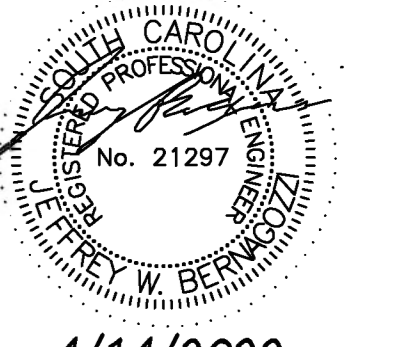
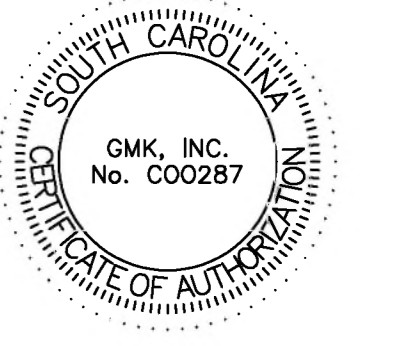
NOTE: SYSTEM AREA OF OPERATION SHALL BE INCREASED FOR SLOPED CEILING PER NFPA 13 11.2.3.2.4 AND FOR DRY PIPE SYSTEM PER NFPA 13 11.2.3.2.5, AS APPLICABLE.



1 FIRE PROTECTION FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 FIRE PROTECTION FIRST FLOOR RENOVATION PLAN
SCALE: 1/8" = 1'-0"

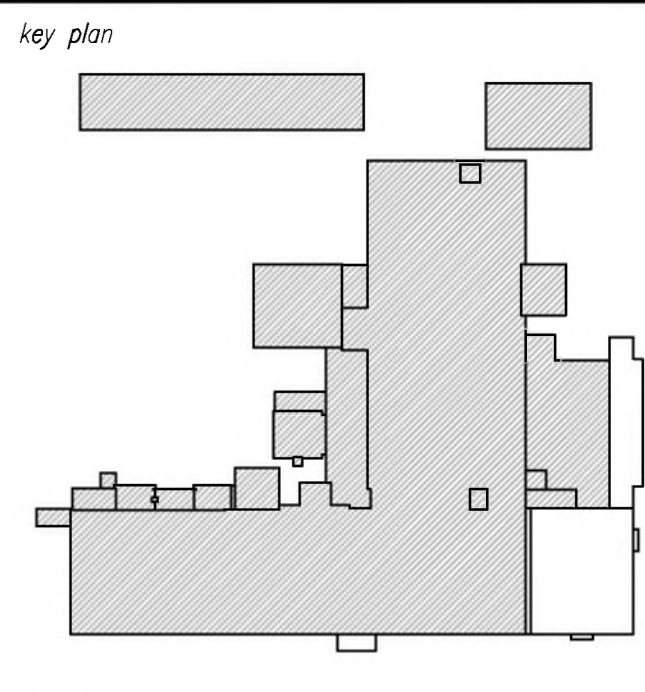


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FIRE PROTECTION FIRST FLOOR PLAN

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drawn by JJK
checked by JWB